THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852 (two lines).
Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON. E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS CANNON LONDON."
Established in [AUSTRALASIA. 1885.

No. 1,708. Vol. LXXXI. OCTOBER 19, 1912.

Subscription, 10s. per annum, including Diary. Free the World over. Single Copies, 6d. each. Winter and Summer Issues, 1s. each. Post Free.

CASCAROMAT

TRADE MARK.

An Elixir of Cascara Sagrada which, while free from bitterness and pleasant to take, at the same time contains the full laxative properties of the drug.

In green actinic bottles containing 4 oz., 8 oz., 16 oz., and 80 oz.

EVANS SONS LESCHER & WEBB, LTD.,
LIVERPOOL, LONDON AND NEW YORK.

Phosphorus.

May and Baker, Ltd., desire to draw attention to the large variety of organic and inorganic phosphorus compounds which they can offer to advantage for the manufacture of artificial foods, mineral waters, pharmaceutical syrups, etc., etc.

GLYCEROPHOSPHATES. Uniform compounds of exceptional purity—conforming to all recognised tests—specially suitable for the manufacture of Syr. Glycerophosph. Co. B.P.C.

LECITHIN. An exceptionally pure product, clearly soluble in Acetone and guaranteed to contain a minimum of 98% Lecithin. Free from Cholesterin, fatty acids, albuminoids and other common impurities of commercial Lecithin.

HYPOPHOSPHITES. Free from sulphates, arsenic, etc., and forming perfectly clear aqueous solutions.

ACID PHOSPHORIC. Manufactured from phosphorus and absolutely free from lime, sulphuric acid, etc. Specially recommended for Syr. Ferri Phosph. Co. and mineral water syrups.

Samples, Prices and all further information may be obtained from

MAY & BAKER, Ltd.,
Battersea, London, S.W.

Index and Buyers' Guide, pp. 5, 6, 7, 8 and 9.

May, Roberts' Traveller.

HERE IS A CHEMIST'S AND DRUGGIST'S ASSISTANT WHO WORKS WITHOUT SALARY.

YOU CAN OBTAIN HIS INVALUABLE SERVICES BY WRITING A POSTCARD NOW.

In the whole of the United Kingdom there is not a single Chemist or Druggist who would not immediately grasp the opportunity of obtaining a valuable assistant who offered his services without salary.

Still there are a number who have not yet taken advantage of the opportunity of obtaining free the World's most useful aid to Chemists and Druggists.

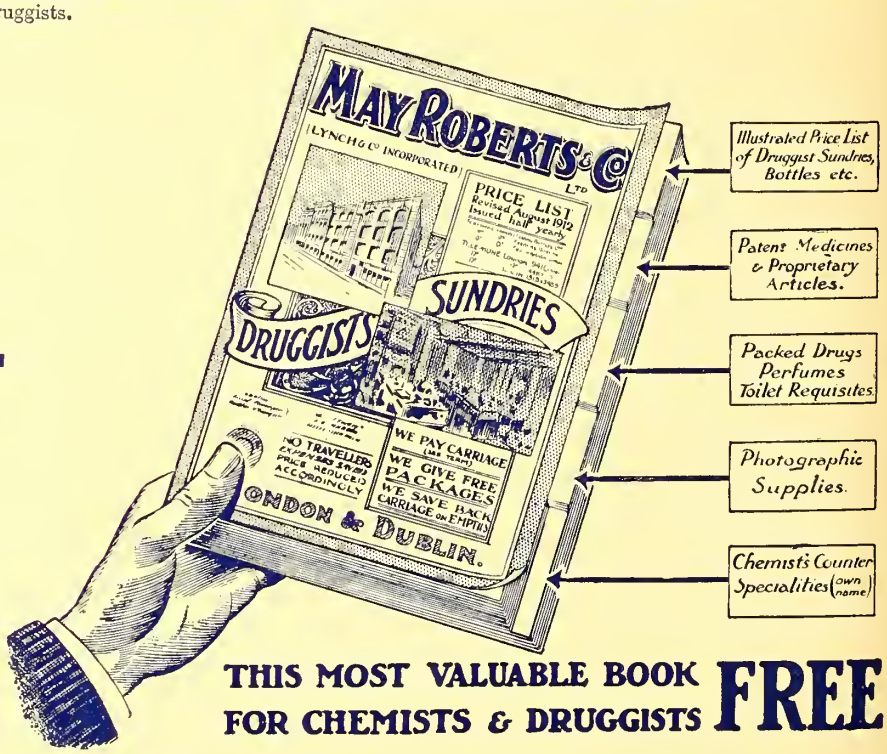
To be sure thousands already have this invaluable aid always at hand and are profiting accordingly.

To these thousands we would say: Be sure that you have the latest revised edition of this book—May, Roberts' Catalogue. The date is August 1912. If you have an older edition write for this new one at once.

We are always glad to discuss and arrange

SPECIAL TERMS

to meet competition or special conditions.



THIS MOST VALUABLE BOOK FOR CHEMISTS & DRUGGISTS FREE

To those Chemists and Druggists who have not yet obtained this book we wish to say that **you are losing both time and money,** because:

(1) Without this Catalogue you might sometimes be at a loss to answer inquiries for some new or little-known article (Supplements keep May, Roberts' Catalogue always up-to-date and the special information you require can always be quickly found).

(2) Without this Catalogue you sometimes pay for packages and carriage. May, Roberts pack and deliver free on the most advantageous terms.

(3) If you do not have this Catalogue you pay travellers' salaries and commissions. May, Roberts employ no travellers and you get the benefit.

(4) By having the Catalogue you save carrying a heavy dead stock, as you can obtain any article at a moment's notice.

As we have taken particular pains to make this book of value in many ways, and as it will cost you nothing but a minute's time and a halfpenny stamp, why not write a postcard request now and receive it free and post paid by return?

MAY, ROBERTS & CO., Ltd., LONDON: 7, 9, & 11 CLERKENWELL ROAD. DUBLIN: 16 WESTMORELAND STREET.

Papier Poudré and Poppœa Regd. preparations

The All-British Trade Marks.

PAPIER POUDRE.

6d. SIZE, 2 in. × 3 in., containing 90 leaves	**3/9**	per doz. as heretofore
1/- SIZE, 4 in. × 3 in., do	**7/6**	do
6d. SHAVING PADS, do	**3/9**	do
NEAT **1/-** MIRROR CASES, containing Pads of PAPIER POUDRE	**7/6**	do
REFILLS to these MIRROR CASES	**2/-**	do
3d. SIZE, 2 in. × 3 in., containing 40 leaves (in limp covers) ...	**2/-**	do
4½d. SIZE (as above-mentioned)	**2/6**	do
SMALL SIZE, doubled leaves, for purse or glove	**2/-**	do

IN WHITE, ROSE, OR RACHEL TINTS.

"POPPŒA" (REGD.) PREPARATIONS.

"POPPŒA" ROUGE, **6d.** and **1/-** size
4/- and **8/-** per doz. pads.

"POPPŒA" ROUGE, with Mirror
12/- per doz.

"POPPŒA" CIRCASSIAN CREAM, in Jars and Tubes **7/6** & **24/-** per doz. jars.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars & Tubes **7/6** & **24/-** per doz. jars.

"POPPŒA" CREME POUDRE, in Bottles **7/6** and **24/-** per doz. bottles.

Only Address of Papier Poudré, Ltd., Proprietors and Manufacturers of Papier Poudré and Poppœa preparations,
23 SOMERSET STREET, LONDON, W.

REGISTERED A

The Wigglesworth Way.

Over £9 Profit

ON EVERY HUNDREDWEIGHT OF

CHEST & LUNG TABLETS.

MAY WE SEND YOU SAMPLE

SO THAT YOU CAN TEST THE QUALITY FOR YOURSELF.

BULK TABLETS
supplied under the following names:—

CHEST & LUNG.

PINE TREE.

TRUE PINES.

SCOTCH PINES.

NORWEGIAN PINES.

Showcards free of charge.

Packed in Decorated Tins to Retail at

6d.

PYNEFUME.

SWISS PINES.

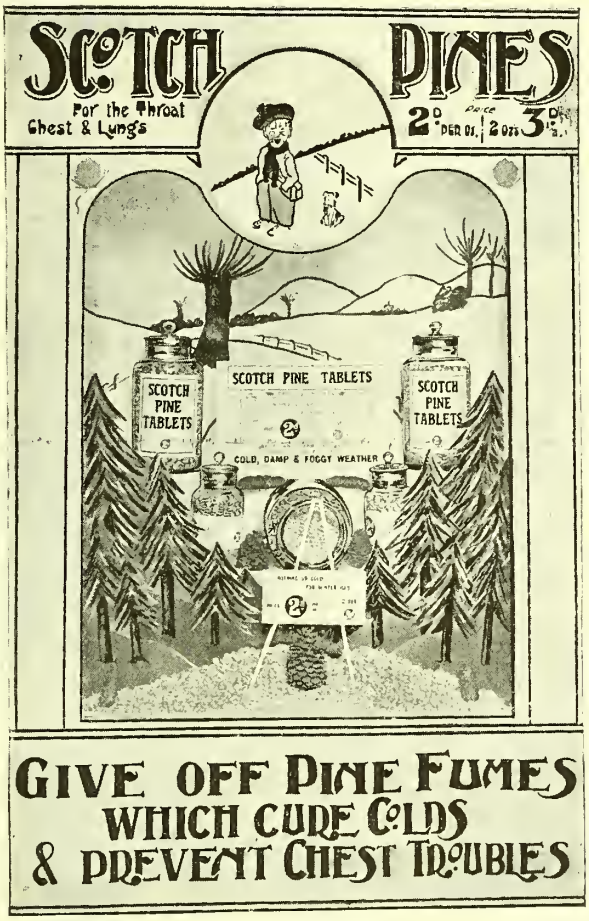
DIAMOND PINE TAR.

ETC.

Effective Window-display Advertising in next page.

The Wigglesworth Way

HAND PAINTED WINDOW DISPLAY.



MADE TO FIT YOUR WINDOW.

Why Not You Try It ! !

SELLING FORCE.

The WIGGLESWORTH WAY of Window Display Advertising is full of VIM, VIGOUR, and VITALITY. It is a magnet unequalled for drawing business. It makes people who have hitherto passed your shop unnoticed, stop to look at your window. Our new window display schemes for selling both bulk, and packed Pines, and Chest and Lung Tablets is well worth your consideration. **"Mr. Chemist!"** now is your opportunity to give us a trial, and in return we'll prove to you the selling force of our methods.

WIGGLESWORTH, TABLET PHARMACIST, Bolton.

WE SEND YOU CUSTOMERS DAILY

By Huge Advertisements

LIKE THIS

Write for Attractive Showcards, Pamphlets, Terms, etc. to

C. E. FULFORD, Ltd.

GREEK STREET, LEEDS.
45 Cowcross St., LONDON, E.C.,
and
17 South Frederick St., DUBLIN.

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS LONDON." Telephone No. 852, Bank.
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in front of the literary pages: the Advertisements following the literary pages are numbered in Roman numerals (i to xxiv)

	Page
Air-Tight Capsules Co., Ltd.	ix
Alexandre, L.	xv
Allcock's Plasters	xi
Alliance Drug & Chemical Co.	vii
Allison, J. R. B.	*Col. Supp.*
American Drug Stores Co.	viii
Anglo-American Optical Co.	26
Aplin & Barrett, Ltd.	xvi
Apollo Liquorice Juice	ii
Atkinson & Barker	ii
Bailey, W. H., & Son	xi
Baker, Parson, C.	*Col. Supp.*
Barker, R. W.	*Text* 614
Barnett & Foster	xxii
Barnetts Perfumery, Ltd.	22
Bath & West of England College	26
Beecham, T.	iv
Berdoe & Fish	*Col. Supp.*
Bidwell, Bidwell & Co., Ltd.	16
Bing, M. & A. C.	xiv
Blattmann & Co.	xviii
Blythe, W., & Co., Ltd.	xiv
Boehringer, C. F., & Soehne	v
Boehringer, C. H., & Sohn	iii
Boulton Macro, Ltd.	viii
Bovril, Ltd.	xvii
Brett & Co.	*Col. Supp.*
Bristol-Myers Co.	iii
British Diamalt Co.	iii
British Organotherapy Co., Ltd.	xiv
Brooks, C.	viii
Buchler, H.	v
Burge, Warren & Ridgley, Ltd.	xi
Burrough, J., Ltd.	*Text* 614
Burroughs Wellcome & Co.	31
Cadbury Bros., Ltd.	*Cover*
Camwal, Ltd.	xix
Central News, Ltd.	xxii
Chameleon Oil Co., Ltd.	xv
Charity, W., & Sons	ii
Chemical Works, Victoria	xvi
Chemists' Friendly Society	*Col. Supp.*
Chesebrough Manfg. Co.	21
Christy, T., & Co.	xv, xxiii
Clark's Syphon Stove Co., Ltd.	xiii
Clyde Press	xii
Coleman & Co., Ltd.	xx
Coles, W., & Co.	viii
Comet Chemcial Co., Ltd.	xxiii
Cook, Geo.	*Col. Supp.*
Cuxson, Gerrard & Co., Ltd.	x
Degen, F. A.	26
Dinsley, A.	xxiii
Dioptric Association	*Col. Supp.*
Dodge & Olcott Co.	24
Electrolytic Alkali Co., Ltd.	iii
Eley Bros., Ltd.	18
Ellison, H., Ltd.	xiv
Eucryl, Ltd.	18
Evans Sons Lescher & Webb, Ltd.	*Cover*
Exchange Column	*Col. Supp.*
Fennings, A.	*Cover*
Fentiman, A. G.	xiv
Fentiman, A. J., & Co.	xv
Fink, F., & Co.	xiv
Fletcher, Fletcher & Co., Ltd.	*Text* 614
Fulford, C. E., Ltd.	4
Fulham Pottery and Cheavin Filter Co., Ltd.	viii
Garthwaite, H.	xiv
Goodall, Backhouse & Co.	*Cover*
Halder, E. C.	xv
Hardy Patent Pick Co., Ltd.	xiii
Harley, T.	xxiii
Harrison & Waide	28
Hawker, A. E.	xxiii
Henry, T. & W.	viii
Hommel, Dr.	iv
Hovenden, R., & Sons, Ltd.	14
Huntley, Boorne & Stevens, Ltd.	xii
International Laboratories	13
Isaacs, I., & Co.	24
Jewsbury & Brown	24
Josephs, Phillip & Sons, Ltd.	*Col. Supp.*
Junora Wine	xxi
Kay Bros., Ltd.	29
Kent, G. B., & Sons, Ltd.	16
Kershaw, H. E., Ltd.	16
Lambert Pharmacal Co.	30
Levermore, A., & Co., Ltd.	xiv
Lister, R. A., & Co., Ltd.	xiii
Liverpool School	26
Lofthouse & Saltmer, Ltd.	xvi
London College of Pharmacy	26
McAdam & Tuckniss	*Col. Supp.*
M'Caw, Stevenson & Orr, Ltd.	xiii
McKesson & Robbins	16
MacLennan, J., & Co.	29
McQueen, J., & Co.	*Col. Supp.*
Manson, R.	xv
Mason Bros. & Chapman	viii
Matthews, D.	*Col. Supp.*
Maw, S., Son & Sons	12
May & Baker	*Cover*
May, Roberts & Co., Ltd.	*Cover*
Merten, F., & Co.	*Col. Supp.*
Millar, A., & Co., Ltd.	xxii
Millard Bros., Ltd.	30
Mumford, G. S., & Sons	*Text* 614
National Cash Register Co., Ltd.	25
Newbery, F., & Sons Ltd.	28
Newnham, Browne & Co.	xv
Nitsche & Gunther Optical Co., Ltd.	27
Nyto Preparations, Ltd.	xv
Orridge & Co.	*Col. Supp.*
Papier Poudré, Ltd.	1, xv
Parke, Davis & Co.	*Cover*
Pears, A. & F., Ltd.	i
Pearson, E. T., & Co.	23
Phillips, C. H., Chem. Co.	9
Pinex Co., Ltd.	15
Plucknett, C. J., & Co., Ltd.	xv
Pond, H. J.	x
Powell, J. T., & Co.	xxii
Prescott & Co.	xv
Prichard & Constance (Wholesale), Ltd.	19
Primer, J.	xv
Raphael's, Ltd.	29
Rendell, W. J.	x
Reynolds & Branson, Ltd.	*Text* 614
Richter, C., & Co.	10, 11
Robinson, B., & Co., Ltd.	xx
Rubinstein, Helena, Mde.	20
Rudduck & Co.	*Col. Supp.*
Sanitas Co., Ltd.	*Text* 614
Sargol Co.	30
Schmitt & Wildenhayn	iii
Scholl, C., Mnfg. Co.	xiv
Schutze, F., & Co., Ltd.	xiv
Shirley Bros., Ltd.	xiv, xv
Singleton & Cole, Ltd.	xv
Sister Lauras Infant Food Co., Ltd.	xvi
Slack, B.	*Col. Supp.*
Smith, T. & H., Ltd.	v
Solazzi Liquorice Juice	xviii
Southall & Smith	xii
Spatula Publishing Co.	26
Spurway & Cie.	22
Stevens, P. A.	xiv
Stipendum Stopper Co.	xxii
Sumners' Typhoo Tea, Ltd.	xviii
Swales, T.	ix
Taverner & Sons, Ltd.	xiv
Tidman & Son, Ltd.	22
Tomlinson & Hayward, Ltd.	*Text* 614
Tomlinson, T., & Son	*Col. Supp.*
Toogood, W., Ltd.	ix
Tye, J., & Son	xiv
United Alkali Co., Ltd.	xxiii
Valda Pastilles	xxiv
Van Essen, James, & Co., Ltd.	17
Van Horn & Sawtell	xiv
Vichy Water	xxi
Viscose Development Co., Ltd.	24
Vittel Water	xxi
Ward & Goldstone	28
Wardale, F. C., & Co.	xv
Warrick Bros., Ltd.	32
Washington Chem. Co., Ltd.	v
Westminster College	26
Whiffen & Sons, Ltd.	v
Whitaker & Co.	24, 30
Wholesale Chemical Works	20
Wigglesworth & Co.	2, 3
Wolf, F., & Sohn	20
Wrigley's, Ltd.	vi
Wyley's, Ltd.	*Cover*
X.L. Rubber Co.	xiv
Youldon, E., Ltd.	viii
Zimmermann, C., & Co.	22

THE BUYERS' GUIDE.

In this section, under appropriate headings, are given the names of firms advertising in this or other issues of the month. No charge is nade to advertisers for the insertion of their names, but only those who have contracts current for advertising in this journal are mentioned. The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemists' and Druggists' Diary." Inquiries addressed to the "Information Department," THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., regarding articles not appearing in these pages receive prompt attention, as shown weekly in the editorial pages.

ADVERTISING
Allison, J. R. B.
Degen, F. A.

AER.-WATER MACHINERY
Barnett & Foster
Flugel & Co.

AER.-WATER MATERIALS
Barnett & Foster
Bush, W. J., & Co., Ltd.
Flugel & Co.
Hay, William, Ltd.
Stevenson & Howell, Ltd.

AERATED WATERS
Camwal, Ltd.
Idris & Co., Ltd.
Jewsbury & Brown

AGENCIES, COLONIAL, &c.
Peake, Allen & Co.

AIR CUSHIONS
Burge, Warren & Ridgley, Ltd.
Surgical Hosiery Co., Ltd.

ALMANACKS, &C.
Ford, Shapland & Co.

ALMOND OIL
Allen, Stafford & Sons, Ltd.

ALUMINIUM BOXES
Buncher & Haseler, Ltd.
Eley Bros., Ltd.

ALKALOIDS
Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Burgoyne, Burbidges & Co.
Hoffmann-La Roche, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Merck, E.
Roques, Ferdinand
Smith, T. & H., Ltd.
Widenmann, Broicher & Co.
Zimmermann, C., & Co.

AMMONIA AND SALTS
Brunner, Mond & Co., Ltd.
Scruhb & Co., Ltd.
White, A., & Sons

ANÆSTHETICS
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Riedel, J. D., Co.
Smith, T & H., Ltd
Zimmermann, C., & Co.

ANILIN DYES
Crawshaw, E., & Co.

ANNATTO
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

ANTI-RHEUMATIC RINGS
Burge, Warren & Ridgley, Ltd.

ANTISEPTICS
Lambert Pharmacal Co.
Macfarlan, J. F., & Co.
Sanitas Co., Ltd.
Zimmermann, C., & Co.

ARTIFICIAL LIMBS
Haywood, J. H., Ltd.
Maw, S., Son & Sons

ASTHMA REMEDIES
Lofthouse & Saltmer, Ltd.
Zematone Co.

AUTOMATIC WEIGHING MACHINES
Southall & Smith

BACTERIAL VACCINES, &c.
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Martindale, W.
Parke, Davis & Co.

BALSAMS
Dodge & Olcott Co.

BANDAGES
Dalmas, A. de St., & Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Sons
Wood Vincent

BATHING CAPS
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Sangers

BATH CABINETS
Riley Bros., Ltd.

BATH GLOVES
Solport Bros.

BED AND DOUCHE PAN
Wileman & Co.

BEESWAX
Schliemann's Oil & Ceresine Co.

BINOCULARS
Darton, F., & Co
Maw, S., Son & Sons
Raphael's, Ltd.

BISMUTH SALTS
Alliance Drug & Chem. Co.
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

BODY BELTS
Haywood, J. H., Ltd.
Schutze, F., & Co., Ltd.
Wood, Vincent

BOOKS AND MAGAZINES
Ilford "Photo Manual"
Lewis, H. K.
Martindale's "Extra Phar."
Spatula Publishing Co.
Squire's "Companion"
Squire's "Hospital Pharmacopœias"

BOTANIC DRUGGISTS
Brook, Parker & Co., Ltd.
Newball & Mason
Potter & Clarke, Ltd.

BOTTLES, JARS, &c., GLASS
Barnett & Foster
Beatson, Clark & Co., Ltd.
Bush, Henry W., & Co., Ltd.
"Ideal" Bottle
Isaacs, I., & Co.
Lang, Jnles, & Son
Maw, S., Son & Sons
Melin, C., & Co.
"Poisonous" Poison Bottle
Poths, H., & Co.
Swales, Thomas
Youldon, E., Ltd.

BOXES
Ford, Shapland & Co.
Harrison & Waide
Robinson & Sons, Ltd.
Rogers & Co.
Stipendum Stopper Co.

BOXES, GREASEPROOF
Rogers & Co.

BRUSHES
Bidwell, Bidwell & Co.
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
"Koh-i-Noor" Brushes
Maw, S., Son & Sons

BUNION TOE-SPRING
Pond, H. J.

BUTTER COLOURING
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

CACHETS
Warrick Brothers

CACODYLATES
Roques, Ferdinand

CAMPHOR
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.

CAPS FOR BOTTLES, &c.
Airtight Capsules Co., Ltd.
Darter, Wilkinson & Co.
Smith Bros. & Co.
Viscose Co. (Self-fixing)

CAPSULED PILLS
McKesson & Robbins

CAPSULES (VARIOUS)
Airtight Capsules Co., Ltd.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Betts & Co., Ltd.
British Drug Houses, Ltd., The
Crown Capsule Co.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Martindale, W.
Parke, Davis & Co.
Tye, J., & Son
Warrick Bros.
Wigglesworth & Co.
Woolley, J., Sons & Co., Ltd.

CARDAMOMS
Cardamom Cess Committee

CASH TILLS
Millard Bros., Ltd.
National Cash Register Co., Ltd.

CASTOR OIL
Sparks, White & Co., Ltd.
Varaldi, F

CATHETERS
Mason Bros. & Chapman
Warne, Wm., & Co., Ltd.

CAUSTIC SODA
Brunner, Mond & Co., Ltd.

CEMENTS
Kay Bros., Ltd.
M'Caw, Stevenson & Orr, Ltd.

CHALK PRECIPITATED
Levermore, A., & Co., Ltd.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd
Sturge, John & E., Ltd.

CHEMICALS
Blythe, William & Co., Ltd.
Boehringer, C. F., & Soehne
Bramwell, E. & Son
British Drug Houses Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Corbyn Stacey & Co., Ltd.
Electrolytic Alkali Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Harrington Bros., Ltd.
Hoffmann-La Roche Chem. Wks., Ltd.
Howards & Sons, Ltd.
Johnson & Sons (Mfg. Chts.)
May & Baker, Ltd.
Merck, E.
Pointet & Girard
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
Washington Chemical Co., Ltd.
White, A., & Sons
Widenmann, Broicher & Co.
Zimmermann, A. & M.

CHEST AND LUNG PROTECTORS
Cuxson, Gerrard & Co., Ltd.

CHEWING GUM
Allen, Samuel, Ltd.
Tutti-Frutti Sen-Sen Co., Ltd.
Wrigley's, Ltd.

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.
Electrolytic Alkali Co., Ltd
United Alkali Co., Ltd.

CHLORODYNE
Davenport, J. T., Ltd.
Freeman's Chlorodyne, Ltd.

CHLOROFORM
Alliance Drug & Chem. Co.
Burroughs Wellcome & Co.
Bush, W. J., & Co., Ltd.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Smith, T & H., Ltd.

CIGARS AND CIGARETTES
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Sturge, John & E., Ltd.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Powell, J. T., & Co.
Raphael's, Ltd.
Zeal, G. H.

CLIPS
Reuter, R. J.

CLOTH BALLS
Senier, Alf., & Co.
Zetts, O'Neil, & Co.

COAL TAR SPECIALITIES
Wright, Layman & Umney, Ltd.

COCKROACH PASTE
Howarth & Fair

COCOA
Cadbury Bros., Ltd.

COD LIVER OIL
British Drug Houses, Ltd., The
Charity, W., & Sons
Evans Sons Lescher & Webb, Ltd.
Lorimer Marshall, Ltd.
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ltd.

COLD CREAM
Barnetts Perfumery, Ltd.

COLLAPSIBLE TUBES
Betts & Co.

COMBS
Hovenden, R., & Sons, Ltd.
Reuter, R. J.

COMPLEXION SPECIALITIES
Rubinstein, Madame H.

CONDENSERS
Bennett, Sons & Shears, Ltd.

CONFECTIONERY COLOURS
Bush, W. J., & Co., Ltd.

CONFECTIONERY, MEDICATED
Gnest, Thos., & Co.

CONTINENTAL PROPS.
Wilcox, Joseau & Co.

COPPERSMITHS
Braithwaite, H., & Co.

CORKS
Mitchell, N. W., & Sons, Ltd.

CORN EXTERMINATOR
Gardner

CORN PLASTERS
Solport Bros.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd.

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Hewlett, C. J., & Sons, Ltd.
Wright, Layman & Umney, Ltd.

COURT PLASTER
Solport Bros.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.

CREPE BANDAGES
Burge, Warren & Ridgley, Ltd.
Gimber, W., & Son
Leslies, Ltd.
Norwich Crêpe Co. (1856), Ltd.
Wood, Vincent

CYANIDES
May & Baker, Ltd.

DAIRY SPECIALITIES
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

DECOCTIONS, &c., CONCENT
Wyleys, Ltd.

DENTAL MECHANICS
Cullwick, H. E.
Fentiman, A. G.
Fentiman, A. J., & Co.
Garthwaite, H.
Halder, E. C.
Wardale, F. C., & Co.

DENTAL TOOLS, ETC.
Pluckuett, C. J., & Co, Ltd

DENTIFRICES
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E. & Co., Ltd.
Enoryl, Ltd.
Jewsbury & Brown
John Strange Winter
Mason Bros. & Chapman
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Parke, Davis & Co.
Reidel, J. D., & Co.
Sangers'
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Johnson & Sons (Mfg. Chts.)

DEXTRINE
Fink, F., & Co.

DIABETIC FOODS
Van Abbot, G., & Sons

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Ellison, Henry, Ltd.
Pearson's Antiseptic Co., Ltd.
Sanitas Co., Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.

DISINTEGRATORS
Hardy Patent Pick Co., Ltd.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Christy & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd
Hovenden, R., & Sons, Ltd.
Manson, R.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Qneloh, H. C., & Co.
Reuter, R. J.
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Swales, Thomas
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE
Brook, Parker & Co., Ltd.
Gathergood's Exor.
Goodhall, Backhouse & Co.
Parkinson-Worswick, J.
Potter & Clarke, Ltd.
Ransom, W., & Son
Schmitt & Wildenhayn
Sparks, White & Co., Ltd.

DYEWARES
Clemons, Marshall & Carbert

EAU DE COLOGNE
Brownley, H., & Co., Ltd.
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtnay & Co.
McCracken, J. & R.
Renter, R. J.
Schutze, F., & Co., Ltd.
Spurway & Cie., Ltd.

EDUCATIONAL INSTITS.
Bath & West of England College
Birmingham & Midland College
College of Preceptors
Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
School of Pharmacy
South of England College
Westminster College

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Bristol-Myers Co.
Cupal, Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

ELASTIC CORDS
MacLennan, John, & Co.

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Wood, Vincent

ELECTRICAL NOVELTIES
Millard Bros., Ltd.
Ward & Goldstone
Wright, Archibald J., Ltd.

EMERY AND CLOTH
Oakey, J., & Son, Ltd.

EMETINE SALTS
Whiffen & Sons, Ltd.

EMULSIFIERS
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.

EMULSIONS, C. L. O., &c.
Angier Chemical Co., Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Boulton Macro, Ltd.
Burgoyne, Burbidges & Co.
Cupal, Ltd.
Lorimer Marshall, Ltd.
Stevenson, H. E., & Co.

ENEMAS
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Warne, W., & Co., Ltd.

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
May, Wm., Ltd.
London Essence Co.
Newball & Mason
Stevenson & Howell, Ltd.

ESSENCES, CONCRETE
Spurway & Cie., Ltd.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
British Drug Houses, Ltd., The

EYE BATHS
Sangers

EXTRACT OF HERBS
Newhall & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)
Allen, Stafford & Sons, Ltd.
Burroughs, Wellcome & Co.
Evans Sons Lescher & Webb,Ltd
Gathergoods Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son

FACTORY, &c., SITES
Great Western Railway
North-Eastern Railway

FILTER PAPER
Burgoyne, Burbidges & Co.

FILTERS
Berkefeld Filter Co., Ltd.

FLYCATCHERS
Alabastine Co. (British), Ltd.
Barraclough, J., & Co.
Smith, Jno. H., & Co.
Strong, Christy
Tunbridge & Wright

FOODS, INVALID, ETC.
Allen & Hanbury's, Ltd.
Aplin & Barrett, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Burgoyne, Burbidges & Co.
Cox, Arthur H., & Co., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Horlick's Malted Milk Co.
"Lemco and Oxo"
Lofthouse & Saltmer, Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Pearson, E. T., & Co.
Sister Lauras Infant Food Co.
Willows, Francis, B. & T.
Woolley, Jas. Sons & Co., Ltd.

FULLER'S EARTH
Mumford, G S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GLYCERIN
Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES
Merck, E.
Pointet & Girard

GREASE REMOVER
Perkin & Co, Ltd.

GRINDERS, DRUG, &c.
Allen, Stafford & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.
Wright, Layman & Umney, Ltd.

GRINDERS (MACHINE)
Hardy Patent Pick Co., Ltd.

GUMS
Fink, F., & Co.
Kildston, W. M., & Co.

HAIR DYES
Marker, Stagg & Morgan, Ltd.

HAND-CARTS, TRUCKS, &c.
Crewe & Co.

HAIR PREPARATIONS
Alexandre, L.
Blackie, Robert
Edwards' "Harlene" Co.
Harrison, G. W.
John Strange Winter
Nyto Preps., Ltd
Osborne, Garrett & Co.
Robare's Anreoline
Saunders, J. Tozeau. Ltd.
Van Essen, James & Co., Ltd.

HAT CLEANERS
Christy, Thos., & Co.
Senier, Alf., & Co.

HAT DYES
Whitaker & Co.

HEARING APPARATUS
Stols Electrophone Co., Ltd.

HEATING APPARATUS
Clark's Syphon Stove Co., Ltd.

HERBS
Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

HOT-WATER BOTTLES
Burge, Warren & Ridgley, Ltd.
Dunlop Rubber Co., Ltd.
Fulham Pottery and Cheavin Filter Co., Ltd.
Galen Manfg. Co., Ltd.
North British Rubber Co., Ltd.
Schutze, F., & Co., Ltd.
Tompkins, J., Ltd.
Toogood, William, Ltd.
Wood, Vincent
X. L. Rubber Co.

HOTELS
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co. Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

ICHTHYOL
Ichthyol Gesellschaft

INHALERS
Oxo Medicated Air Co., Ltd.

INSECTICIDES
Christy, T., & Co.
Nyto Preparations, Ltd.
Tomlinson & Hayward, Ltd.

INSECT POWDER
Danysz Virus, Ltd.
Keating, Thomas

INSTEP SUPPORTS
Pond, H. J.
Scholl Manfg. Co.

JUJUBES
Gnest, Thos., & Co.
Potter & Clarke Ltd.

LANOLINE
Burroughs Wellcome & Co.

LARD
Ewen, J., & Sons

LAVENDER WATER.
Bush, W. J., & Co., Ltd.
Rivers, Hill & Co., Ltd.

LEATHER BLACK
Whitaker & Co.

LECITHIN
Chem. Works "Victoria"
Williams, G. M., & Co.

LETTER FILES
Eeles, Walker & Co.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb,Ltd.
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, &c.
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. J.
Vernon & Co., Ltd.

LIQUORICE JUICE
Apollo
Evans Sons Lescher & Webb,Ltd.
Jackson, E. E.
Mumford, G. S., & Sons
Solazzi

LITHIA SALTS
British Drug Houses, Ltd., The
Macfarlan, J. F., & Co.
May & Baker, Ltd.

LOOFAHS
Internl. Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

LOZENGES
Ayrton, Saunders & Co., Ltd.
Gnest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raimes & Co.
Standard Tablet & Pill Co.,Ltd.
Warrick Bros., Ltd.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Comet Chemical Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Lister, R. A., & Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Wilkinson, S. W., & Co.

MAGNESIA AND ITS PREPS.
British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

MALT EXTRACT & PREPS.
Boulton, Macro, Ltd
British Diamalt Co., Ltd.
British Drug Houses, Ltd., The
Burroughs Wellcome & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd.
Paine & Co., Ltd

MANICURE CASES
Hovenden, R., & Sons, Ltd.

MARKING INK
John Bond ("Crystal Palace")

MEAT EXTRACTS
Armour & Co., Ltd.
Bovril, Ltd
Brand & Co., Ltd.
"Lemco and Oxo"
Tooth's Extract of Meat Co.

MENTHOL CONES
Pharm. Ind. Ges. Offenbach

MERCURIALS
Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

METAL GOODS
Betts & Co., Ltd.
Eley Bros., Ltd.

METHYLATED SPIRIT
Burrough, J., Ltd.
Macnair, A. & Co.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES
Raphael's, Ltd.

MINERAL WATERS, SALTS
Apollinaris Co., Ltd.
Hughes, E., Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)
Vittel

MIXERS AND SIFTERS
Comet Chemical Co., Ltd.
Gardner, Wm. & Sons (Gloucester), Ltd.

MUSTARD PLASTER
Rneff, Julius

NIGHT-LIGHTS
Prescott & Co.

OINTMENTS
Blackie, Robert
Burgess, E.
Calvert, F. C., & Co.
Cartwright, W. B., Ltd.
Cox, Arthur H, & Co.
Oldfield, Pattinson & Co.
Peat Products (Sphagnol), Ltd.
Smith, Maurice,
Zimmermann, Chas., & Co.

OILS, ESSENTIAL
Allen, Stafford & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake, A., Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb,Ltd
London Essence Co.
Poppelreuter, W.
Ransom, W., & Son
Schimmel & Co.
Spurway & Cie., Ltd.
Stevenson & Howell, Ltd.
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, Chas., & Co.

OILS, MINERAL, FATTY
Allen, Stafford & Sons, Ltd.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Stern Sonneborn Oil Co., Ltd.

OLIVE OIL
Goodall, Backhouse & Co.
Sparks, White & Co., Ltd.
Varaldi, F.

OPTICAL GOODS
Anglo-American Optical Co.
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co.,Ltd
Raphael's, Ltd.

OPTICAL TUITION
British Optical Institute, Ltd.
Dioptric Association
Spectacle Makers' Company

ORANGE QUININE WINE
Hobson, Joseph, & Son
Melrose-Drover Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

ORGANOTHERAPY PRODUCTS
British Organotherapy Co., Ltd

OTTO OF ROSE
Spurway & Cie., Ltd.

OTTO OF ROSE (SYNTH.)
Bush, W. J., & Co., Ltd.
Kerfoot, Thos., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd.

PACKED GOODS
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
Brook, Parker & Co., Ltd.
Cartwright, W. B., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Standard Tablet & Pill Co.,Ltd
Van Essen, James, & Co., Ltd.

PALATINOIDS
Oppenheimer, Son & Co., Ltd.

PAPER HANDKERCHIEFS
Powell, J. T., & Co.

PASTILLES
Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb,Ltd
Kerfoot, Thomas, & Co.
Taverner & Sons, Ltd.
Valda Pastilles
Warrick Bros., Ltd.

PATENT AGENTS
Barker, R. W.
Newnham, Browne & Co.

PERFUME MATERIALS
Boehringer, C. F., & Soehne
Bush, W. J., & Co., Ltd.
Kerfoot, T., & Co.
Naef, M., & Co., Succrs.
Schimmel & Co.
Schwarz, A. W.
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PEPPERMINT OIL
Bing, M. & A. C.
Bush, W. J., & Co, Ltd
Dodge & Olcott Co.

PERFUMES
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Barnetts Perfumery, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Evans Sons Lescher & Webb,Ltd
Gambles, J. C., & Co.
John Strange Winter
Kerfoot, T., & Co.
Lescol Perfumery Co.
McCracken, J. & R.
Prichard & Constance, Ltd.
Queloh, H. C., & Co.
Rivers, Hill & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Spurway & Cie., Ltd.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son
Wolff, F., & Sohn

PESSARIES (SOLUBLE)
Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

PETROLEUM EMULSION
Angier Chemical Co., Ltd.

PETROLEUM JELLY
Chesebrough Manfg. Co.
Gardner & Andrew
Schliemann's Oil & Ceresine Co.
Stern, Sonneborn Oil Co., Ltd.

PHOSPHORUS AND PREPS.
May & Baker, Ltd.

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Johnson & Sons (Mfg.Chts.),Ltd

PHOTO. GOODS
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher &Webb,Ltd
Express Developing Co.
Ilford Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.

PHOTO. POSTCARDS, ETC.
Rajar, Ltd.

PILL MAKERS
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Standard Tablet & Pill Co., Ltd.

PLASTERS
Alloock Manfg Co.
Berliner, Arthur
Dalmas, A. de St., & Co.
Galen Mnfg. Co., Ltd.
Leslies, Ltd.

PLATE POWDER
Lees, A., & Co.

PLEATED PAPER
Darter, Wilkinson & Co.
Smith Bros. & Co.

POLISHES (VARIOUS)
Bradley & Bourdas
Oakey, J., & Sons, Ltd.

POSTAL BOXES
Eeles, Walker & Co.
Robinson & Sons, Ltd.

POWDER PAPER
Prichard & Constance, Ltd.

PRESS CUTTINGS
Central News

PRINTERS
Clyde Press
Ford, Shapland & Co.
Harrison & Waide
Suttley & Silverlock, Ltd.
Townsend, J., & Sons

PRINTING PRESS
Excelsior Printers' Supply Co.
Paragon Press Co.

PROPRIETARY ARTICLES
Angier Chemical Co., Ltd.
Anglo-American Pharm. Co.
Anglo-Indian Drug & Chem. Co.

PROPRIETARY ART.—*cont.*
Aplin & Barrett, Ltd.
Arnfield, J. C., & Sons, Ltd.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Beecham, T.
Bow's Liniment, Ltd.
British Drug Houses, Ltd., The
Burgess, E.
Carnrick, G. W., Co.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary
Cupal Ltd.
Cyona Co., Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Demuth, R.
Dnnoan, Flockhart & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd
Faulding, F. H., & Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd.
Fox & Co. (Liverpool), Ltd.
Freeman's Chlorodyne, Ltd.
Fulford, C. E., Ltd.
Gambles, J. C., & Co.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hommel's (Dr.), Hæmatogen
Hughes, E. Griffiths
Ichthyol Gesellschaft
International Laboratories
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
"Lemco and Oxo"
Martindale, W.
May, Roberts & Co., Ltd.
Mergentheim Tablets
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chem. Co.
Pinex Co., Ltd.
Poultogen Co.
Primer, J.
Resinol Chemical Co.
Richter, C., & Co.
Riedel, J. D., Co.
Ruhenstein, Madame H.
Rubwel Co.
Sangers'
Sargol, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co., Ltd.
Thermogene Co., Ltd.
Thompson & Capper
Tunbridge & Wright
Valda Pastilles
Wait-and-See Proprietary
Warrick Brothers, Ltd.
White, A. J., Ltd.
Wilcox, Jozeau, & Co.
Woodward, W., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PUFFS
Solport Bros.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Alliance Drug & Chem. Co.
Boehringer, C. F., & Soehne
Buchler & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.
Pointet & Girard

RADIO-ACTIVE MINERALS
Harrington Bros., Ltd.

RADIUM
Buchler & Co.

RAZOR STROPPER
Barclay & Sons, Ltd.

RENNET
Fullwood & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Macfarlan, J. F., & Co.
Ransom, W., & Son
Smith T & H., Ltd.

RESPIRATORS
Zimmer & Co

RIBBONS, CORDS, &c.
MacLennan, John, & Co.

RUBBER GOODS
Berliner, Arthur
Burge, Warren & Ridgley, Ltd
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Surgical Hosiery Co. Ltd.
Tompkins, James, Ltd.
Warne, W., & Co., Ltd.
X. L. Rubber Co.

RUBBER STAMPS
Richford, C. D.

SACCHARIN
Saccharin Corporation, Ltd.

SAMPLE CASES
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.

SCIENTIFIC APPARATUS
Reynolds & Branson, Ltd.
Perken, Son & Co., Ltd.

SEA SALT
Tidman & Son, Ltd.

SEED-DRESSING
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb,Ltd
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau, & Co.

SHARES
McAdam & Tuckniss

SHEEP DIPS
Burt, Boulton & Haywood

SHEEP MEDICINES
Pettifer, Stephen, & Sons

SHELLAC
Kershaw, H. H., Ltd.

SHOP FITTING
Ayrton-Graham Ltd.
Cook, George
Evans Sons Lescher & Webb,Ltd
Grant, D.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Rudduck & Co.
Sangers'

SHOW STANDS
London and Colonial Manfg. Co.

SOAPS, TOILET, &c.
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell, John Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Eucryl, Ltd.
Evans Sons Lescher & Webb,Ltd
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
Olival Anglo-Spanish Soap Co.
Pears, A. & F., Ltd.
Peat Products (Sphagnol), Ltd
Price's Patent Candle Co.
Resinol Chemical Co.
Wolff, F., & Sohn
Wright, Layman & Umney, Ltd.

SHOULDER STRAPS
Wood, Vincent

SODA FOUNTAINS
Flugel & Co.

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Electrolytic Alkali Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

SOOTHERS
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.
Woolf, Lewis

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co.,Ltd
Raphael's, Ltd.

SPICES
Goodall, Backhouse & Co.

SPIRIT OF WINE
Burrough, J., Ltd.
Preston's Liverpool Distillery Co., Ltd.

SPONGES
Internl. Sponge Importers, Ltd

SPRAYS
Burge, Warren & Ridgley, Ltd
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

SPRINKLER CORKS
Betts & Co., Ltd.

SPRUCE BEER
Hohson, Joseph, & Son

STARCH
Mumford, G. S., & Sons

STILLS
Bennett, Sons & Shears, Ltd.
Brown & Son (Automatic)
Stokes, F. J., Machine Co.

STOPPERS
Stipendum Stopper Co.

SUPPOSITORIES
Peat Products (Sphagnol), Ltd

SURGICAL APPLIANCES AND DRESSINGS
Allen & Hanbury's, Ltd.
Bailey, W. H., & Son, Ltd.
Berliner, Arthur
Burroughs Wellcome & Co.
Bush, H. W., & Co., Ltd.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Haywood, J. H., Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Martindale, W.
Mason Bros. & Chapman
Maw, S., Son & Sons
Queloh, H. C., & Co.
Reynolds & Branson, Ltd.
Rohinson & Sons, Ltd.
Surgical Hosiery Co., Ltd.
Taylor, W. G.
Werne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

SWIMMING FLOATS
May, Roberts & Co., Ltd.
Schutze, F., & Co., Ltd.

SYPHONS
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Sharman's Pat. Syphon Co., Ltd

SYRINGES
Bush, H. W., & Co., Ltd.

SYRUPS, MEDICINAL
Fellows' Med. Manfg. Co.

TABLE WATERS
Burrow, W. & J.

TABLET MACHINERY
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper
Wilkinson, S. W., & Co.

TABLETS, COMPRESSED
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd
British Drug Houses, Ltd., The
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan Flockhart & Co.
Evans Sons Lescher & Webb,Ltd
Howards & Sons, Ltd.
Johnson & Sons (Mfg. Chts.)
Martindale, W.
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd
Thompson & Capper
Wand Manfg. Co.
Wigglesworth & Co.

TABLOID" PRODUCTS
Burroughs Wellcome & Co.

TARTARIC ACID
British Drug Houses, Ltd., The
Boehringer, C. H., Sohn

TEA (TANNIN-LESS)
Sumnor's Typhoo Tea, Ltd.

TEATS (I.R.)
Ingram, J. G., & Son

TIN BOX MAKERS
Goodall, Backhouse & Co.
Huntley, Boorne & Stevens
Shirley Bros., Ltd.

TINCTURE PRESS
Lister, R. A., & Co., Ltd.

TOBACCO
Singleton & Cole, Ltd.

TOILET ARTICLES
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Ayrton, Saunders & Co., Ltd.

TOILET ARTICLES—*cont.*
Beetham, M., & Son
Blackie, Robert
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Chesebrough Mnfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Daisy Ltd.
Edwards' Harlene Co.
Eucryl, Ltd.
Fulford, C. E., Ltd.
Gambles, J. C., & Co.
Gibbs, D. & W., Ltd.
Harker, Stagg & Morgan, Ltd.
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lloyd, A., & Co.
Lloyd, A. S. (Hovenden)
Lorimer Marshall, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Osborne, Garrett & Co.
Papier Pondré, Ltd
Parke, Davis & Co.
Prichard & Constance, Ltd.
Queloh, H. C., & Co.
Rubinstein, Madame H.
Sangers'
Saunders, J. Tozeau, Ltd.
Softo Manfg. Co.
Solport Bros.
Sonthall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co., Ltd.
To-Kalon Mnfg. Co., Ltd.
Van Essen, James, & Co., Ltd.
Vinolia Co., Ltd.
Wholesale Chemical Works
Woolley, J., Sons & Co., Ltd.

TOILET PAPER
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons

TOOTH STOPPING
Stevens, P. A.

TRADE-MARKS AGENTS
Barker, R. W.
Ford, Shapland & Co.
Newnham, Browne & Co.

TURNED WOOD BOXES
Rogers & Co.

TRUSSES
Bailey, W. H., & Son, Ltd.
Coles, William, & Co
Davis, John Morgan, & Sons
Haywood, J. H., Ltd
Maw, S., Son & Sons
Sohntze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

VACUUM FLASKS
Millard Bros., Ltd
Reuter, R. J.

VACUUM PANS
Bennett, Sons & Shears, Ltd.
Stokes, F. J., Machine Co.

VALUERS
Baker, P. C.
Berdoe & Fish
Brett & Co.
Orridge & Co.
Tomlinson, T., & Son

VAPORIZERS
Evans Sons Lescher & Webb,Ltd
Sanitas Co., Ltd.

VASELINE
Chesebrough Mnfg. Co.

VERMIN-KILLERS
Dansys Virus, Ltd
Evans Sons Lescher & Webb,Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.

VETERINARY INSTRUMENTS
Mason Bros. & Chapman
Maw, S., Son & Sons

VINEGAR
Grimble & Co.

VETERINARY REMEDIES
Chesebrough Mnfg. Co.
Christy, Thos., & Co.
Day & Sons (Crewe), Ltd.
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Pettifer, Stephen, & Sons
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.
Zimmermann, C., & Co.

WATER STILLS
Stokes, F. J., Machine Co

WATERS, CONCENTRATED
Robinson, B., & Co., Ltd.

WAXES
Kidston, W. M., & Co.
Sohliemann's Oil & Ceresine

WEED-KILLERS
Burt, Boulton & Haywood
Harrison, G. W.
Tomlinson & Hayward, Ltd.

WEIGHING MACHINES
Maw, S., Son & Sons

WINDOW BRACKETS
Ayrton-Graham, Ltd.

WINDOW TICKETS
Merten, F., & Co.

WINES
Burrough, J., Ltd.
Smith, S., & Co., Ltd.

WINES, MEDICATED
Ayrton, Saunders & Co., Ltd
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Deans, Logan & Co., Ltd.
Fletcher, Fletcher & Co.
Hobson, Joseph, & Son
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.
Smith, S., & Co., Ltd.

WRIST STRAPS
Solport Bros.

ZINC OXIDE
Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

"Milk of Magnesia"

(REGISTERED TRADE MARK)

PHILLIPS'

Is the ORIGINAL and ONLY GENUINE.

GUARANTEED to contain AT LEAST 24 grains of Hydrate Magnesia in each fluid ounce.

IS ENTIRELY FREE from OXIDE or CARBONATE of Magnesia and any suspensory matter whatever.

Special quotations for the ***2/3*** *and* ***1/-*** *sizes from:*

THE Charles H. Phillips Chemical Co.

14 HENRIETTA STREET, COVENT GARDEN, W.C.

Tel. No.: 3239 Central.

INJUSTICE !

STATEMENTS IN "MORE SECRET REMEDIES" EXPOSED

BY

"THE CHEMIST AND DRUGGIST" and "TRUTH."

The Pharmacie Richter, manufacturers of "Sequarine," addressed from their London Office the following letter to the British Medical Association.

March 26th, 1912.

The Manager,
Messrs. The British Medieal Association,
429 Strand, W.C.

Dear Sir,—It has been suggested to us that there is a possibility of the eomposition of "Sequarine" being mentioned in a reprint of your book "Seeret Remedies." In justiee to ourselves we would point out that "Sequarine" is not a secret remedy, the full formula appearing on the wrapper and labels.

"Sequarine" is sold, as you will see by further labels enelosed, in various languages, and in countries like Germany, Switzerland, and Austria, where the strietest law with regard to the sale of proprietary medicines exist, it has a very large sale. As you know, it is put up in two forms—the injeetion form and the swallowing form—and in all eases where the former is recommended, wc advise the supervision of a doctor. Samples of both thc injeetion and swallowing forms are being sent to you by same post, and we shall welcome the investigation of your analyst to show that the analysis is strietly eorrect.

As a firm established as long ago as 1782, with a reputation we should be sorry to see besmirched, we are willing, nay anxious, that you should send a representative at our expense to investigate our laboratories at Kreuzlingen in Switzerland, where "Sequarine" is made by responsible doctors and ehemists.

We would remind you of a previous letter in whieh we stated that the use of the name Brown-Séquard in conneetion with "Sequarine" has been bestowed upon us by Dr. Goizet, who was Brown-Séquard's collaborator and confidant, and we have in this offiee all the eorrespondenee that passed between them on the subjeet. Dr. Goizet has written a book upon the theory, mentioning "Sequarine," and this we also have the pleasure of sending by same post.

We shall appreeiate any inquiry you may make for further particulars, and remain, yours faithfully,

C. RICHTER & CO.

THE ANSWER.

The British Medical Association replied as follows:—

March 27th, 1912.

Dear Sirs,—I beg .o acknowledge your letter of th 26th inst., with samples and book, which shall receive atten tion.

I am, yours faithfully

GUY ELLISTON
(*Financial Secretary and Business Manager*

Messrs. Richter & Co.,
59-61 New Oxford Street, W

"SHALL RECEIVE ATTENTION!"

The "attention" that the British Medical Association pai to the courteous offer made them by the Pharmaeie Richt was what has since been ealled a singularly unfair descriptio of "Sequarine" in "More Secret Remedies," the book issue by the Assoeiation in order to expose the many "quack" medicines now before the public.

TWO SIGNIFICANT OMISSIONS.

The authorities responsible for this description, howeve *made no mention whatever of the existence of "Sequarine" in Physiological Solution for Injection!*

Thus the more valuable form of "Sequarine" was ignore though qualified doctors throughout the world are eognisa of its worth, and administer it with suecess.

Again, the cost of the ingredients of the remedies describe are given, so that the publie may know the intrinsie vali of their purchases. *But in the case of "Sequarine," no pri other than the retail price of a one-ounce bottle is given!*

Is this a silent admission by the British Medieal Associ tion that in "Sequarine" the publie reeeive full value f the price charged?

The following Extracts from the pages of

TWO UNIMPEACHABLE JOURNALS

orcibly show the unjustifiability of the British Medical Association's attitude.

From *The Chemist and Druggist*, July 27, 1912:

"'Sequarine' is an example of the singularly unfair anner in which the British Medical Association attacks roprietary articles.

"The statements (in 'More Secret Remedies') suggest hat the manufacturers are making unwarranted use of)r. Brown-Séquard's name, whereas the contrary is the case.

"Dr. Brown-Séquard had associated with him in the roduction of his testicular fluid Dr. L. H. Goizet, who con- nued to manufacture it after his death, and who sold his ights in the fluid (the manner of preparation as well as the ommercial rights) to Mr. C. H. F. Richter, a member of the rm which was established in Switzerland in 1782.

"Dr. Goizet . . . certifies that 'Sequarine' is identical ith what he made himself, and . . . he obtains his own upplies from Messrs. Richter, who have correspondence etween Dr. Brown-Séquard and Dr. Goizet, and documents om the latter which prove that they have rights in law s well as in fact, to give the name 'Sequarine' to their roduct, which is in no sense a secret remedy. These and ther facts prove that 'More Secret Remedies' is wrong."

From *Truth*, August 7th, 1912:—

"As one of the first to acknowledge and to direct public attention to the value of the volume published by the *British Medical Journal* under the title of 'Secret Remedies: What They Cost and What They Contain,' perhaps I may be permitted to point out an instance of injustice in connection with the work.

"'Sequarine' is in no sense a secret remedy, since the formula of the preparation is printed on every wrapper and the analysis made by the *British Medical Journal* testifies to the accuracy of this declaration.

"On the question of its prime cost there is nothing said, . . . therefore . . . no question arises of some inexpensive drug being foisted on the public at an extortionate price.

". . . the proprietors have every right to identify the name of Brown-Séquard with their preparation, since it is used by Dr. Goizet, the late Dr. Brown-Séquard's collaborator, under conditions necessary to produce the exact article, to the discovery of which Brown-Séquard attached great importance.

". . . medical men have asserted that the preparation has a definite value in the class of diseases for which it is recommended.

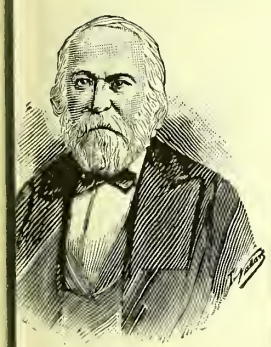
"It is a pity that so useful a publication as 'Secret Remedies' should be marred by such an error of judgment on the part of its authors."

It is the intention of the proprietors of "Sequarine" to put their case into legal hands evidence is forthcoming that the sale of "Sequarine" has been adversely affected by the tatement in "More Secret Remedies."

Therefore Messrs. Richter & Co. trust that all Chemists will do what is in their power o reassure the public as to the genuineness and worth of "Sequarine," and to refuse to allow he erroneous statements, published with the authority of the British Medical Association, o go uncorrected.

H. A. Richter
(Dipl. Apotheker),
Proprietor of Pharmacie Richter.

Kreuzlingen, Switzerland
(Lake of Constance).



BROWN-SÉQUARD.

s portrait was executed by Nadar (President of the Photo- phic Association of France) n the original kindly lent by Librarian of the Faculty of Medicine of Paris.

ssrs. C. Richter & Co. have ained the exclusive right of roduction of the above for ertising purposes throughout the world.

WHOLESALE AND RETAIL PRICES

OF

SEQUARINE

The wholesale price of "Sequarine" is 3/3 per bottle, or 36/- per doz. bottles (carr. paid). Minimum retail price, 3/9 per bottle.

The wholesale price of "Sequarine" in Ampullae for injection is 7/- per box of 4 Ampullae (Minimum retail price, 8/- per box), or 72/- per doz. boxes (carr. paid).

Both forms may be obtained from all Wholesale Houses or direct from—

C. RICHTER & CO. (EST. 1782),

MANUFACTURING CHEMISTS, **59-61 New Oxford St., London, W.C.**

These illustrations show "SEQUARINE" in both forms.

No. 53.

S. MAW, SON & SONS
7 to 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

Telegraphic Address: "ELEVEN LONDON." Telephone No.: LONDON WALL 3230 (4 lines).

To waste time "looking back" is to give someone else the opportunity of considering the future. The progressive Pharmacist appreciates "Maw" Quality.

Maw's Page

FRIDAY MORNING, OCT. 18, 1912.

Just twelve months ago—to be exact, October 21st, 1911—the first number of "Maw's Page" was issued. In the words of the introductory article: "The policy of 'Maw's Page' will be to keep our specialities before Pharmacists in an interesting manner." How far we have succeeded we leave it to our friends to judge. That this weekly announcement is appreciated is proved by the congratulatory letters we have received from time to time. With this, the "Birthday Issue," new ideas have been introduced which we trust will prove as popular as the many features which have already ensured the success of "Maw's Page."

M S S

It has been, in the past, our continual effort to present, in these columns, information of the many lines we have introduced from time to time. Indeed, the publication of *news* concerning the activities of the "House of Maw" is, and always will be, the ideal of "Maw's Page." On a recent occasion we had reason to publish an important announcement just as "Maw's Page" was going to press. Thanks to the co-operation of "The Chemist and Druggist," the desired advertisement was set up and inserted within two or three hours of publication.

M S S

It is achievements such as this, the issue of supplementary "Pages"—as our four extra January numbers—and the employment of modern, artistic, and typographical methods, which have made "Maw's Page" something more than an advertisement; regularly perused by the Pharmacist, the apprentice, and the "Man behind the Counter."

GOOD SALECARDS THAT SELL GOODS. NO. 1.

This Salecard will attract customer's attention as quickly as it attracted yours. Its message will appeal to all sufferers, and with those who are convinced that the one remedy for corns is prompt removal by chiropodistal methods, the "Angle" Corn Parer will find a ready sale. Note the *angle* of the blade. Easy to manipulate. Easy to sell. Best quality throughout. Per 10/- doz., including 3 on card. Size of card 10¼" × 8." (Spare blades 2/- doz.)

MAW'S "BUNTY" SMELLING SALTS

A topically named little novelty is our new "Bunty" Smelling Salts, a combination of that sterling favourite the "Clip Watch," with an up-to-date and very pretty container. The latter is made of the finest calf, tinted in a variety of artistic colours, provided with heavy silk strings for closing and carrying. There are three sizes, each put up in boxes of four, attractively labelled on inside of cover for display. Prices: No. 1, 12/-; No. 2, 15/-; No. 3, 18/. per doz., or one box each size (one dozen assorted) 15/- all.

The thousands of people who purchased Maw's Bronchitis Shields last winter were impressed by the above warning which was printed on every wrapper, and will soon be seeking a new one for the coming season. Every Pharmacist should personally see that he has adequate supplies to meet the expected large demand. To the Pharmacist who has not yet stocked this splendidly produced line, we suggest that now is the time to give it a trial. Maw's Bronchitis Shields sell by appearance, by merit, and by recommendation. Price, with salecard, 16/9 doz.

FOR THE INVALID.

ICE AND HOT WATER BAGS WITH A REPUTATION.

B1777/O

We propose to illustrate, in a series of paragraphs, the many patterns of ice and hot water bags which are recognised as necessities by invalids for the alleviation of various ailments. The Pharmacist who cultivates a demand for good quality bags will incidently create a "name" for himself among a class of customer with requirements highly profitable to supply.

B1787/O

This week we bring to your notice bags No. B1777/O for the ear, 1/6 each, and No. B1787/O for heart affections 3/- each.

Order Now:

(A few hints for this week compiled for the guidance of Pharmacists.)

MAW'S CAMPHOR AND EUCALYPTUS ICE

In round tins, 8/6 and 16/- per gross; in oblong tins 2/4 per dozen.

MAW'S "OTTO OF ROSE" COLD CREAM.

In covered pots, 3/9 and 7/- per dozen.

MAW'S "RADIUM" (REGD.) FOOT WARMER.

2 pint, 18/- per doz.; 3 pint, 22/6 per doz.

MAW'S "TOE-COTS."

3/- per dozen.

MEMORANDA:
Write here your requirements:

.....

.....

.....

53/19.10.12.

Important Notice to Chemists

WHO STOCK

PARMINT

The INTERNATIONAL LABORATORIES beg to announce that they are greatly augmenting the sale of "PARMINT" by furnishing the Chemists with a fine Window Bill which is printed in two colours, and measures $8\frac{1}{2}'' \times 14''$. When these Bills were first ordered it was thought that 5,000 would be quite sufficient for all the Chemists who would want to display them, as they were led to believe that many Chemists objected to placing Bills in their Windows; but in less than two weeks after their Travellers went on the Road, every Bill had been placed in Chemists' Windows, and for a few days they were unable to keep pace with the demand. However, the Second Edition has now been completed, and any Chemist desiring Window Bills can have a supply sent them free and Carriage Paid by dropping a postcard to their London Office.

It has been proven time and again that Window Bills are specially effective if displayed in conjunction with a large advertising campaign, in fact many Chemists claim that the best results are obtained by displaying Bills only during the first two months that the article is being extensively advertised. If this is so, and a good many records bear out this fact, now is certainly the time for all Chemists who have not already put up a "PARMINT" Window Bill, to do so, thereby letting the Public know that they keep it in stock. Hundreds of orders are being sent direct to the International Laboratories, yet they are doing everything in their power to turn this trade into the Chemists' shops, and every Chemist who is stocking "PARMINT" is advised to notify the International Laboratories of this fact so that they can refer all inquiries from their district direct to them.

If you are stocking "PARMINT," do not fail to drop them a card at once, as it will be the means of bringing many more customers to your shop, and do not forget to ask them for one of their Window Bills, which will be sent you free and Carriage Paid.

Chemists who have had Bills displayed for the last two weeks claim that their sales have increased over 50% during that time, and there is no doubt but what a good Window Bill is a great help to the Chemists, if displayed simultaneously with a large advertising campaign.

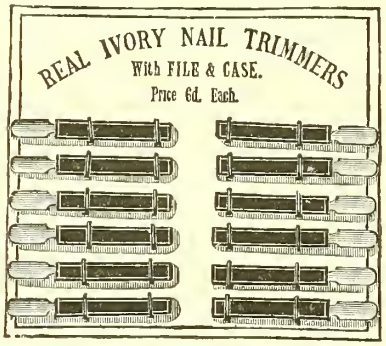
An enormous demand for "PARMINT" has already been created, and no Chemist who is stocking it should be without one of these Window Bills. If you want to let the Public know that you are selling "PARMINT," and if you want *your share* of the *profit* that will be derived from their extensive advertising campaign, write at once for one of these attractive Window Bills which will be worth a great many pounds to you during the coming season.

Please remember that "PARMINT" is on the P.A.T.A. list. The price to you is 24/- per dozen. Advertised price 2/6 per bottle. Every Wholesale House stocks "PARMINT."

INTERNATIONAL LABORATORIES,

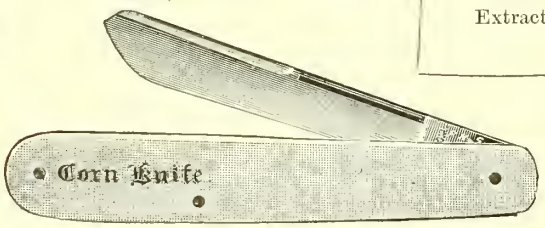
62 Oxford Street, London, W.

QUICK-SELLING SIDE LINES for CHEMISTS.



No. 39. 3 in., in leather sheaths, **3/-** per doz.

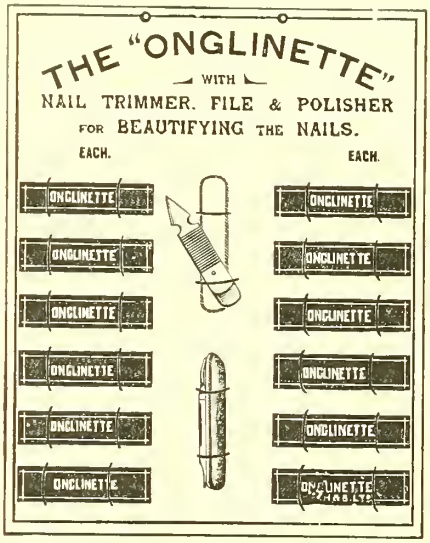
No. 16. The "Comedone" Black Head Extractor, all steel, ½-doz. on card. **7/6** per doz.



CORN KNIVES,
SHEFFIELD MADE.

No. 193. Ivory handles, ordinary spring closing (*as illustration*), **12/-** per doz.
No. 194. Superior ... ... **18/-** ,,

No. 1. The "Dwarf" Hollow Ground Corn Razor, ½-doz. on card. **8/3** per doz.



No. 1. 1 doz. on card, **3/9** per doz.

"MY COMPANION," **8/-** per doz.

Prices subject to 2½% Cash Discount.
A Copy of our Monthly List will be forwarded on application.

R. HOVENDEN & SONS, Ltd.,

29, 30, 31, 32 & 33, BERNERS ST., OXFORD ST., W,
Tel. No.: 3021 Gerrard (2 lines).
89, 91, 93 & 95, CITY ROAD, FINSBURY, E.C.
Tel. No.: 6260 London Wall (2 lines).

LONDON.

A Great Success !
Repeat Orders from Every Locality !

The Quick-Selling Cough-Remedy

Pinex

The Quick-Selling Cough-Remedy

Wholesalers everywhere sending repeat orders far in excess of expectations. Your Wholesaler can supply. Order NOW. You take NO RISK.

.. Unsold Bottles returnable at any time. ..

"Pinex" is a preparation compounded by a Pharmaceutical Chemist to provide those who desire to make up their own cough mixture, with a medicine that will really do them good.

They buy from the Chemist a 2/9 bottle of "Pinex" (instead of asking for pennyworths of this, that, and the other) and add the contents to a prescribed quantity of simple sugar syrup. The result is a home-made cough mixture of unsurpassed excellence.

And the Chemist makes a profit worth having.

"Pinex" advertising is straightforward, honest talk to the customer. In each advertisement we state that customers can have their money back in full if they are not satisfied with "Pinex." *We* refund the money, not you. The profit you have earned on the sale, you keep.

Your customers are, therefore, amply protected. Now, what about you?

To the Chemist we say: "We guarantee the sales; unsold bottles returnable at any time."

The supreme excellence of "Pinex" allows us to trade on these terms. The Preparation is as good as it is claimed to be; it satisfies the Public, and it brings the Chemist a new and lucrative business.

Advertising has already created a demand for "Pinex." That demand will steadily grow. The recommendation of people who take it, and the cumulative effect of "Pinex" advertising will make "Pinex" the biggest selling Cough Preparation in the Country. Are you prepared to meet the demand? If not, order a supply of "Pinex" from your wholesaler at once. Remember—YOU CAN'T MAKE A LOSS FOR WE GUARANTEE THE SALES.

TERMS:—Advertised Price 2/9 per bottle. Minimum Retail Price, 2/6 per bottle. Price to you, 24/- per doz.

PINEX IS ON THE P.A.T.A. LIST.

THE PINEX CO., LTD., 36/38 Upper Thames St., London, E.C.

Telegrams: "Pinexine, Cent., London." *Telephone: 2208 City.*

The number of dentifrices is myriad, their names are legion.

But—

in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, *London, Eng.*

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX, acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

McKESSON & ROBBINS, New York, U.S.A., *Manufacturers.*

BRITISH DEPOT— G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

(EST. 1839.)

BIDWELLS,

AXMINSTER,

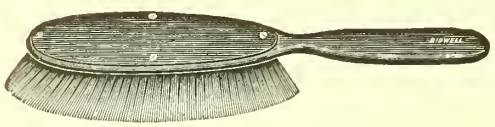
DEVON :: ENGLAND.

Gold Medal Awarded

NO LOOSE HAIRS IN OUR :: TOOTH BRUSHES. ::

THE "GRIP" NAIL BRUSH.

IMITATIONS of our Silver-drawn Tooth Brushes are being sold.



FINE QUALITY HAIR BRUSHES.

BIDWELL, BIDWELL & CO., LTD.

SUPPORT HOME INDUSTRIES.

Estd. 1777.

Incd. 1900.

BUY KENT'S BRUSHES.

Diary, 1912, pp. 74, 75.
Winter Issue, 1912, pp. 48, 49.

H. E. KERSHAW, Ltd.

131 Curtain Rd., LONDON, E.C.

IMPORTERS OF

SHELLAC

Of all kinds.

Manufacturers of

WHITE SHELLAC

NOW IS THE TIME TO SHOW WINTER LINES!

One of our clients has increased his Bank BALANCE £9 : 9 : 0 by showing our VIOLET OATMEAL CREAM

The Original, Best Perfume, and Best Packed, being in decorated tubes and lithographed cartons.

The RETAIL PRICE is protected at 6d. The price to the trade is 45/- per gross, and we give ½ gross free with every gross ordered together with striking showcards and a supply of Violets, Moss, and Oats to make an attractive window show, compelling attention, thus ensuring sales. We also give a dainty glass display jar for counter use so that customers can try the cream free.

1 gross costs	£2 5 0	Sells £3 12 0
6 dozen free		Sells £1 16 0
Cost - -	£2 5 0	£5 8 0

NET PROFIT, £3 3 0 = 140%.

THE BEST PREPARATION FOR CHAPPED SKIN AND REDNESS.

Free Sample from—

VAN ESSEN JAMES & CO., Ltd.,

Manufacturers and Packers of all Toilet lines required by the Pharmacist. Private Formulæ Packed,

100 Bermondsey Street, LONDON, S.E.

CORRESPONDENCE INVITED.

Send to ELEY for these!

ELEY BROS. Ltd., possess facilities second to none for the manufacture of Silver- and Nickel-Plated Brass Boxes for Shaving Sticks and Aluminium Boxes for Dentifrice, Soaps, etc., also Tops, Caps, and Dredgers for Toilet and other Powders.

SOLID DRAWN TUBES, SMALL BRASS AND ALUMINIUM STAMPINGS.

ELEY BROS. Ltd., are large manufacturers of this class of goods to the wholesale trade. Prompt attention given to all inquiries, prices on application.

Address all enquiries for these goods to Dept. 21,

ELEY BROTHERS LIMITED,
254 GRAY'S INN ROAD, LONDON, W.C.

BIRMINGHAM: 29 and 30 Whittall Street.
GLASGOW: 82 Mitchell Street.
LIEGE (Belgium): 107 Rue Louvrex.
FLORENCE: 4 and 6 Via Cavour.

Canadian Branch:—
ELEY BROS. (CANADA) LTD., Transcona, Man.

EUCRYL TOOTH POWDER

YIELDS 100% PROFIT.

The Proprietors wish to call the attention of their numerous friends to the fact that the Cent. per Cent. Bonus Terms apply to the 1/- (Flat or Canister shape) as well as the 6d. tins.

3 doz. 1/- tins at 7/- per doz.	... Cost	£1 1 0
3½ doz. (including free bonus)	... Sell for	2 2 0
	Profit	£1 1 0

PROPRIETORS:
EUCRYL LTD., 61/63 LANT ST., SOUTHWARK, S.E.

FOR CHRISTMAS

YOU MUST HAVE

New and Original

TOILET GOODS

Prichard & Constance (Wholesale), Ltd.

Are specialists in their production. They are the proprietors of the Amami Series; the most successful of any non-advertised line.

A £5 lot with free drapery, etc., makes a sales-compelling display.

71 Newman St., London, W.

Tel.: CENTRAL 11716. Cables: AMAMI REG, OX LONDON.

WEST END SHOWROOM:

40 OLD BOND STREET, W.

VALAZE

REMEMBER THE NAME.—Many ladies will ask you this summer for this beauty cream, made famous by London's fashionable West End Complexion Specialiste, Mme. Helena Rubinstein. It will not show flattering business acumen not to be able to supply it.

RETAIL PRICE: 4/6, 8/6, and 21/- A POT.

Madame Helena Rubinstein,
24 Grafton Street, London, W.

255 Rue Saint Honore, PARIS.
274 Collins Street, MELBOURNE.
158 Pitt Street, SYDNEY.
9 Brandon Street, WELLINGTON, N.Z.

Kaloderma Soap,

Face Powder,
Toilet Jelly,
Shaving Stick.

Peerless Toilet Preparations,
Unrivalled for the Complexion,
Softening & Beautifying the Skin.

GOLD MEDAL, PARIS, 1900
GRAND PRIX, ST. LOUIS, 1904

Of all Chemists and Perfumers.

F. WOLFF & SOHN,

By appointment to H.R.H. The Grand Duke of Baden.

PARIS. 37, Faubourg Poissonnière. KARLSRUHE, BADEN. LONDON: 82, Hatton Garden, E.C.

You can supply your Customers with high-class Toilet Preparations at extremely low prices, and get a good profit yourself.

LARGE BUYERS and SOLE AGENTS for our Specialities wanted everywhere.

Face Powder, best quality and special appearance; Tooth Paste in **GLASS, ALUMINIUM-COVERED JARS; SHAVING STICKS IN FANCY DECORATED TINS;** Tooth Powder, superior and cheaper to any other **POMADE HONGROISE,** five sorts and in all prices; **COSMETIQUES** for fixing the Hair, six qualities and sizes; **"ELSO" FACE MASSAGE CREAM,** extra fine quality; **BRILLIANTINE IN DIFFERENT SIZES,** qualities, and prices, **ALSO WITH BUYERS' NAMES.** Toilet Paraffin, Bay Rum, Lanoline, Lime Cream, "Flowerine" Hair Cream, Violet Powder, in highly decorated tins, Sachets, **RAZOR PASTE,** Scurf Pomade, **"BRYSTA" CLOTH CLEANER,** at lowest prices.

IT WILL PAY YOU to write for Samples and Quotations to:—

The
WHOLESALE CHEMICAL WORKS,
114 Copenhagen Street, King's Cross, LONDON (Eng.)

WHITE LIQUID 'VASELINE'

For Constipation and Kindred Ills

GREAT success has attended the administration of White Liquid 'Vaseline' in cases of Constipation, Hæmorrhoids, Piles, and all diseases arising from Functional Derangement.

Members of the medical profession stoutly uphold its virtues. For spraying purposes nothing equals it.

Guaranteed to contain no chemicals or distillates whatever. Refined absolutely to the limit—nothing could be purer. Tasteless—odourless. A teaspoonful on retiring will within a very short time work wonders in cases of Chronic Constipation. May be taken *habitually* without the slightest untoward effects.

The Chemist will find this a very profitable line to handle. It is often opportune to recommend such a pure wholesome product for the above disorders—and the trade can rest assured that none but the best results will be experienced from the White Liquid 'Vaseline.'

Prestige gained, and liberal profit netted !

Terms to the Trade:

8-oz. bottles (with glass stoppers) - - *17s. per doz.*
16-oz. ,, ,, ,, ,, - - *26s.* ,,
5-lb. tins (hermetically sealed) - - *8s. 6d. per tin.*

Chesebrough Mfg. Co.
42 Holborn Viaduct
London E.C.

EAU DE COLOGNE

"ELSA PLATZ" BRAND

Unrivalled for Delicacy and Strength.

Eminently suitable for a Speciality.

Sells readily at very handsome profits.

Sample and Prices on application.

SPURWAY & CIE., Ltd.

MANUFACTURING PERFUMERS,

14 BARTHOLOMEW CLOSE, LONDON, E.C.

WE SHALL ESTEEM THE FAVOUR OF YOUR INQUIRIES FOR:—

NATURAL FLOWER OILS, ABSOLUTE, LIQUID, CONCRETE, (SOLID.)
Rose. Orange flowers. Jasmin. Tuberose. Cassie. Reseda. Broom. Violet.

ARTIFICIAL AND SYNTHETIC PERFUMES.
Benzyl Acetate. Cheiranthine. Geranium Artificial. Musk Artificial (all qualities). Phenylethylic Alcohol. Artificial Violet 100% (all qualities).

ESSENTIAL OILS.
Almond. Bay. Clove. Geranium (all qualities). Lavender (all qualities). Neroli. Pepperment (all qualities). Petit Grain. Rosemary. Thyme. Wintergreen. Sassafras. Lemon. Bergamot.

SPECIALITIES.

Oil Oak Moss colourless. Oil Violet leaves colourless. Neroli, H.A. Orris Root concrete.

Price Lists and Samples on Application.

CHARLES ZIMMERMANN & CO.

9-10 St. Mary-at-Hill, LONDON, E.C.

BARNETTS

PERFUMES & COLD CREAM

STAND UNRIVALLED.

Samples and Prices (in bulk) on Application.

BARNETTS PERFUMERY LTD.,

126/128 Bristol Street, BIRMINGHAM.

TIDMAN'S SEA SALT.

ON P.A.T.A. LIST.

INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings in value and upwards Carriage Paid. Cases Free.

	Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
1d. Packets.	1/-	per box 12 in box	11d. per box.	8/6 pr. grs.
2d. ,,	2/-	,, ,,	1/10 ,,	16/9 ,,
1d. linen Bags.	1/-	,, ,,	11d. ,,	8/6 ,,
2d. ,, ,,	1/-	,, 6 in box	11d. ,,	16/9 ,,
Boxes, about 1½lbs	4d.		3½d. ,,	2/10 pr. doz.
,, ,, 3½ ,,	8d.		7d. ,,	5/8 ,,
,, ,, 7 ,,	1/2		1/- ,,	10/- ,,
,, ,, 14 ,,	2/-		1/10 ,,	18/3 ,,

SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
28-lb. Bags (or Boxes)	3/- each	3/-	2/6 each
½-cwt. Bags	5/6 ,,	5/6	4/7 ,,
1-cwt. Bags	10/- ,,	10/-	8/4 ,,

Cash Discount, 2½% on orders of £1 and upwards.

TIDMAN & SON, LTD., WAPPING, LONDON, E.

LACTAGOL

IS THE ONLY

PERFECT GALACTAGOGUE

And the best nutrient for
The Nursing Mother.

We will gladly send one tin free of charge to every Chemist so that he may have an opportunity of testing it. We recognise that we can have no better salesman than the Chemist with personal experience of the value of LACTAGOL.

EXTRACT FROM "THE LANCET," SEPT. 7th, 1912.

LACTAGOL.

Lactagol is an interesting substance prepared from cotton seed. It occurs as a pale brown granular powder which is not soluble in water, but swells up on boiling. Recent experiments have shown that it promotes the secretion of milk and the quality is at the same time improved. According to our analysis it appears to consist practically entirely of protein substance, the total nitrogen amounting to 15·68 per cent. The mineral matter amounted to 1·51 per cent. and the moisture to 7·08 per cent. The administration of the extract to patients supplying both a deficient amount and quality of milk **led to a decided improvement in both directions. The secretion increased in quantity and proved to contain richer proportions of fat and albumin.** These results are interesting, and suggest further trials being made. Our attention was drawn to the preparation at the recent exhibition of the British Medical Association at Liverpool.

EXTRACT FROM "THE NURSING TIMES," OCTOBER 12th, 1912.

LACTAGOL.

In view of the paramount importance of breast-feeding to both mother and child, our readers will be glad to know of this preparation, which has just been put upon the market.

"Lactagol" is a powdered extract of cotton seed, aud it is claimed by the proprietors that it exercises a specific action on the mammary gland and increases and improves the lactic secretion.

We have had it under observation, and have found this claim to be substantiated. After a few doses a very marked effect was noticed on both the quantity and quality of the milk, the health of the mother improved, and the child was satisfied.

PAMPHLETS with Chemist's Name and Address and Dummies for Counter or Window will be supplied on demand.

SOLE MANUFACTURERS:

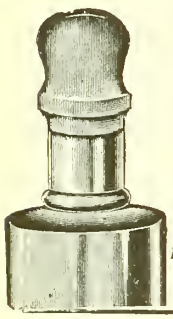
E. T. PEARSON & CO., Manufacturing Chemists, 49 WATLING ST., LONDON.

THE "D & O" BRAND
MEANS
"STANDARD OF QUALITY"

ESSENTIAL OILS, SOUTH AMERICAN BALSAMS & DRUGS.
Write for Samples and Prices of our PEPPERMINT OILS.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

AIR-TIGHT & SELF-FIXING CAPSULES.



'SEMREH'
BOTTLE CAPS.
FIT ALL BOTTLES.

The necessity of purchasing specially shaped bottles or bottles with specially shaped necks does **not** arise when you use 'Semreh' Bottle Caps. Consider the convenience and saving in using Caps which fit perfectly the bottles and stoppers you have in stock!

FULLY DESCRIPTIVE BOOKLET FREE
THE VISCOSE DEVELOPMENT CO., LTD.,
Pembroke Road, BROMLEY, KENT.

USE BEST BOTTLES ONLY.
WILL YOU PLEASE TRY OURS.

PLEASE NOTICE. All orders given this month will be executed at following low prices—

Clear Blue Tinted, plain or graduated. Round Edges.

3 & 4	6 & 8	12	16 ounce.
7/-	8/-	12/-	14/- per gross.

PANEL BOTTLES 1/- per gross extra.

FIRST QUALITY. Quinine Tinted. Round Edges.

3 & 4	6 & 8	12	16 ounce.
10/-	11/-	18/-	20/- per gross.

WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ounce.	} Plain or
3/6	4/-	4/6	5/6 per gross	} Teaspoons

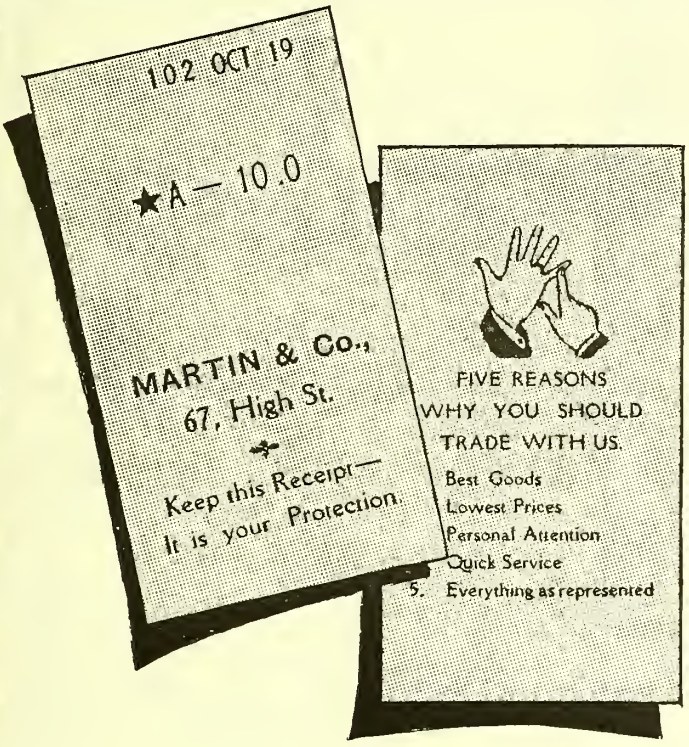
The New Shape OVAL FRONTED BOTTLES.
6 oz. size 8/6 per gross.

I. ISAACS & CO.,
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
Carriage paid to certain stations. Particulars on application.
Established 120 years. Bankers:—London, County & Westminster Bank.

JEWSBURY & BROWN'S
Oriental
TOOTH
POWDER
6d. & 1/-
in the Hygienic Containers.
A most PROFITABLE Line.
From all the Wholesale Proprietary Houses.

NO CLOSS NO POLISH

In bottles, 6d. each, in separate neat cartons, with suitable brush.
These Dyes are a distinct invention, dying the straw without an objectionable varnished appearance, and producing the effect of new goods. On the P.A.T.A.
Write for terms, patterns, also leaflet of testimonials:
WHITAKER & CO. COLOUR WORKS, KENDAL, ENG.
London Depot: 8 MILK STREET, CHEAPSIDE, E.C.
SPECIALISTS IN VARNISHES, STAINS, DYES, &c. *EST. 1878.*
Telegraphic Address "Dullette" Kendal



Protection and Advertising

Giving and getting Receipts is not only a safe but necessary principle in business.

National Cash Register Receipts are automatically printed and issued by the machine, and the figures on them mean what they show.

The amounts printed are added together on the Cash Register. There can be no mistake about them.

These Receipts are a very valuable advertising medium, as well as protection and information.

Write for booklet on "Get a Receipt" Protection and Advertising.

Receipt-Printing Registers cost very little more than those which do not print and issue receipts.

Liberal allowance for old style Cash Registers taken in exchange.

Easy Terms of Payment if desired.

The National Cash Register Co., Ltd.,
225 Tottenham Court Road, W.

Telephone: City 7155 (4 lines).
Telegrams: "Nacareco, Ox, London."

Cut out or copy.

COUPON Oct. 19.

The N.C.R. Co., Ltd.,
225 Tottenham Court Road, London, W.
Please send your Booklet on "Get a Receipt" Protection and Advertising.
This enquiry does not commit me in any way,

Name_____

Address_____

CHEMIST & DRUGGIST.

Possibilities Unlimited

START

A MAIL ORDER BUSINESS

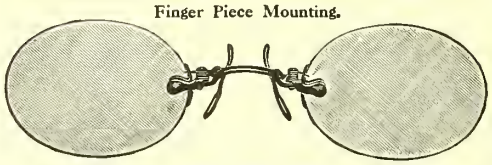
This cannot be learned in spare time, but it can be successfully conducted in spare hours *with my help.* I plan, effectively design, write the advertising literature and do it economically, because I have had years of experience as a specialist in this work. References *prove* this. It pays you to pay me.
Write for free Booklet.

F. A. DEGEN, c/o CHEMIST & DRUGGIST,
Fellow Inc. Soc. Advt. Consultants, **42 CANNON ST., E.C.**

THE

"FIT-LITE"

Finger Piece Mounting.



In Gold Filled Only

HIGHEST QUALITY. :: LOW PRICE.
Samples on Approval. FITTING SETS SUPPLIED.

ANGLO-AMERICAN OPTICAL CO.,
47 Hatton Garden, E.C.

THE WESTMINSTER COLLEGE

402 CLAPHAM ROAD, LONDON, S.W.
Telephone : Brixton 1728.

This College has the Largest Botanic Garden of any Pharmaceutical School or College in England, being over an acre in extent.

The following are the Dates of Entries for the January and April Examinations: OCTOBER 8th and JANUARY 5th; but students can, if they choose, enter on any date.

WILLS'S POSTAL SYSTEM for the Major, Minor, Preliminary, Apothecaries' Hall, Fairchild, Bell's Scholarship, and all Colonial Examinations. Fee, £1 1s.

"Wills's Universal Postal System provides a complete course of 100 lessons for home students."—PHARMACEUTICAL JOURNAL.
"The idea on which this system is based is to arrange for each student his course of study, and to provide him generally with the necessary knowledge."—CHEMIST AND DRUGGIST.

For Prospectus, etc., apply to Mr. C. S. V. WILLS.

THE

BATH & WEST OF ENGLAND

COLLEGE of Chemistry & Pharmacy.

DAVID J. WILLIAMS, F.C.S., Ph.C., Silver Medallist, Principal.

DAY CLASSES.

83% Successes first day.

UNSURPASSED RESULTS.
JULY MINOR 1912.
Second day **100%** Second day
100% on Four occasions.

80% Average for 4½ years.

PREPARATORY POSTAL TUITION A SPECIALITY.

Distinctions:—1908, Fairchild Prize, Mr. B. Hall; 1909, Fairchild Schol., Mr. B. Hall; 1910, Fairchild Prize, Mr C. Hughes; 1911, Mr. W. Cooper; 1912, Mr. W. J. Davis, Fairchild Scholarship (bracketed 1st).

Ten per cent. reduction in College fees to Correspondence Students on entrance.

For Terms and Prospectus apply The SECRETARY.

Bath & West of England College of Chemistry & Pharmacy
6 Cleveland Place East, BATH.

"Oni heuir ni fedir."

THE LIVERPOOL SCHOOL OF PHARMACY

(Recommended by Liverpool Chemists' Association).

18 COLQUITT STREET, LIVERPOOL.

Principal—H. HUMPHREYS JONES, Ph.C., F.C.S.

Students for January and April Examinations should join if possible on or before Oct. 1st.

Half Term commences November 5th.

The New Year's Term commences on January 6th, for which bookings are already well in hand.

Write at once for Syllabus which contains valuable information such as Volumetric Equations, % Calculations, Thermometric Equivalents, &c., post free on application.

THE

LONDON COLLEGE OF PHARMACY

With which is incorporated the South London School of Pharmacy (founded by Dr. Muter in 1868).

Principals: HENRY WOOTTON, B.Sc. (Lond.) ARTHUR KIRKLAND, Ph.C.

MINOR.—Next Complete Course of Lectures, Classes and Practical Work begins January 6th. Fee to April Examination 9½ guineas.
APOTHECARIES' HALL COURSE begins November 4th. Fee 5½ guineas per term.
EVENING CLASSES (MINOR and MAJOR). Fee from 1 guinea per term of three months. Students can join at any time.

The number of Students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

SEPTEMBER EXAMINATION, 1912.—**14** London College Students passed, comprising nearly one-third of the total pass for England and Wales.

For Prospectus, &c., apply to The Secretary, LONDON COLLEGE OF CHEMISTRY AND PHARMACY, 361 Clapham Road, London, S.W.

A new ad. each week.

SPATULA INK FORMULARY.—Recipes and directions for making all kinds of ink for all kinds of purposes. By Dr. J. H. Oyster. The result of 35 years' study and collecting. Probably the most complete book of its kind ever published. Much cognate information. 172 pages, bound in cloth. Post paid 8s.; with THE SPATULA 1 year, 12s.

15,000 RECEIPTS.—A new revised edition of the "Cyclopedia of Receipts." Probably the most practical and valuable collection of formulas and receipts ever published. Besides the receipts there is a vast amount of information on various subjects. Circular giving contents free. Price 21s.; with THE SPATULA 1 year, 23s.

PRICELESS RECIPES.—3,000 secrets, 368 pages. A book of recipes, and nothing but recipes. Not a cook book. Silk cloth finish. Post paid, 3s.; with THE SPATULA 1 year, 7s.

100 ILLUSTRATED ADS.—A collection of 100 illustrated ads. and a catalogue of hundreds of cuts, all designed especially for druggists. 2s.; with SPATULA 1 year, 6s.

FREE.—We will send to any Chemist and Druggist in any part of the world, sending us his name and address on a postal card, a sample copy of THE SPATULA, one of the handsomest and most practical drug journals published, full of American vim and push, a 16 page illustrated catalogue of pharmaceutical books, and a beautiful picture in colours on heavy cardboard, 7½×9½ of the "Spatula Soda Water Girl."

(Cheques on local banks in Great Britain accepted. Make Money Orders payable to IRVING P. FOX, Treasurer.)

THE SPATULA, 14 Sudbury, BOSTON, MASS.

SPECTACLES
AND
EYEGLASSES

In Gold, Rolled Gold, and Ratenoid.

"MENISKEN" LENSES

(The Lens with a deep base curve)
In SPHERICAL & TORIC Form.

"HALLAUER" LENSES,

The Lens that absorbs the Ultra-Violet Rays, and eliminates the glare of strong White Light.

FOR FULL PARTICULARS AND PRICES WRITE US.

NITSCHE & GUNTHER
OPTICAL CO., LTD.,

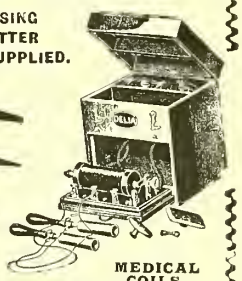
66 Hatton Garden, London, E.C.

ATTRACTIVE GOODS AT REASONABLE PRICES

W TRADE MARK G

PORTABLE ELECTRICAL NECESSITIES

ADVERTISING MATTER SUPPLIED.



MEDICAL COILS

A large range of Medical Coils from **12/-** doz. net. The "Delia," as illus., with Electrodes & Drop-down front. Leather Handle. **17/4** net.

SEND NOW FOR TRADE TERMS

of these most profitable and interesting sidelines. We also supply free advertising matter. Mention "The Chemist and Druggist."

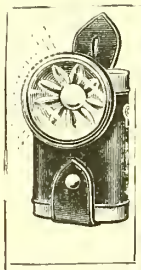
OUR POCKET LAMP REFILLS are unequalled for lasting, quality, and efficiency. Price from **2/10½** dozen net.

The Volex. The nearest approach to an Accumulator. Price **5/-** doz. net.

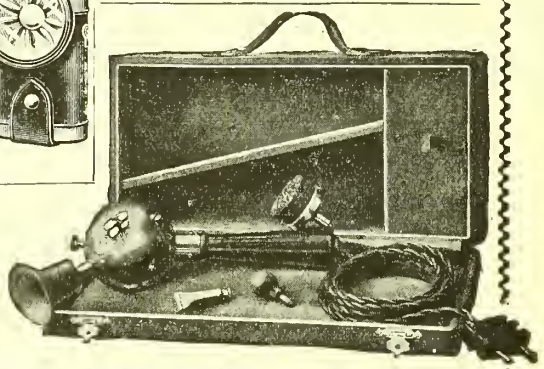
ATTRACTIVE LINES IN POCKET ELECTRIC FLASH LAMPS. Complete with Bulbs and best Refill Battery, from **6/1½** dozen net.

ARISTO GUN-METAL CASE with Refill and Metal Filament Bulb, for Waistcoat Pocket. **2/** net.

THE "DAINTY" Waistcoat pocket de luxe pattern, **1/8** each net, leather covering; Popular pattern, **1/4** each net, leatherette covering. Complete with Bulbs and Batteries.



LEATHER CASED LAMP, WITH BUTTON AND BELT ATTACHMENT. Splendid for train, reading, and inspection use. Complete with Volex long-life Refill and Metal Filament Bulb. Price **4/4** net.



SAMPSON MASSAGE VIBRATOR, in handsome case, complete with 4 applicators. Price **£1 12 0** net, complete with batteries.

WARD & GOLDSTONE, SALFORD, MANCHESTER. Contractors to H.M. Government, ESTABLISHED 1892.

Telephones: 7084-5-6 & 7 Central. Telegrams: "Multum Manchester."

TELEGRAMS - "NEWBERY" LONDON

TELEPHONE NOS.- HOLBORN 905 & 5274

FRANCIS NEWBERY & SONS LTD

"NEWBERYS"

DRUGGISTS' SUNDRIESMEN.

PHOTOGRAPHIC DEALERS &c.

ANNUAL CATALOGUE OF PROPRIETARY ARTICLES, SUNDRIES, ETC., FREE ON REQUEST.

PROPRIETORS OF "ST PAULS" PERFUMERY &c., "CHARTERHOUSE" PHOTOGRAPHIC CHEMICALS (TRADE MARKS REGISTERED.)

F. NEWBERY & SONS LTD 27 & 28 CHARTERHOUSE SQ. LONDON ENGLAND

We Lead the Way

AS CHEMISTS' PRINTERS.

YOU can Lead the Way

AS A CHEMIST BY ADVERTISING WITH OUR PRINTED MATTER.

Send 6d. in Stamps for Set of Samples.

Samples sent to Colonies on receipt of Postal Order for 10/6, which is credited on a £5 order.

HARRISON & WAIDE,

Chemists' Printers,

KIRKSTALL ROAD, LEEDS.

Silk Ribbons

SILK FLOSS

SILK CORDS

Specially selected for the

Perfumery Trade

MERCERISED COTTON CORDS

(Soother Cords)

ELASTIC CORDS

(for fixing Carded Goods)

Large and varied stock always on hand.
Special qualities or colours made to order.

Samples and Prices from

JOHN MACLENNAN & CO.

30 NEWGATE STREET, LONDON, E.C.
and at GLASGOW.

IN PREPARATION.

Messrs. KAY BROTHERS, Ltd., going to press with their popular Annual, the

"FAMILY REFERENCE AND FIRST AID BOOK,"

revised and added to, containing 26 pages of interesting and useful reference matter, cover printed in colours; also

COUNTER BILLS

in two sizes, 11 in. × 9 in. and 6 in. × 7½ in. The larger size is specially adapted for Counter use and wrapping of 6 to 8 oz. bottles. The paper is of best quality, smooth, plainly printed *on one side only*, with large margin, and carefully cut.

Supplies of above are now being booked for winter delivery.

GRATIS, CARRIAGE PAID, PRINTED WITH NAME AND ADDRESS,

for chemists forwarding *two slip labels* and undertaking careful distribution. Population of district should be given and in the case of the Almanacks house to house distribution should be promised.

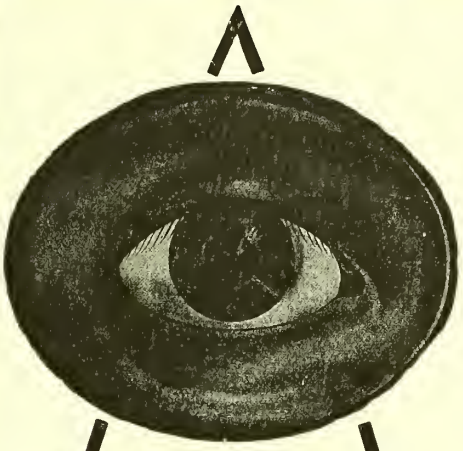
Write at once, as applications are dealt with in rotation, and the edition is limited. Address Advertisement Department.

"LINSEED COMPOUND"

40 Years' Proven Efficacy
For COUGHS and COLDS.

Sole Proprietors and Manufacturers—

KAY BROTHERS, LTD., Stockport.



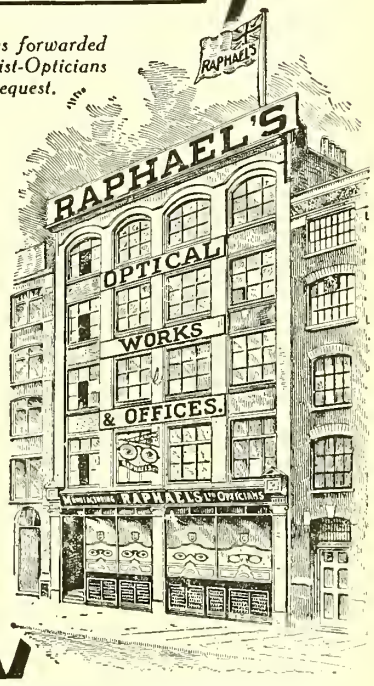
PERFECTION IN

Spectacle & Eyeglass Frames and Rimless Mountings.

GOLD, GOLD FILLED, "PLATINOR," HARD NICKEL AND STEEL.

GUARANTEED QUALITIES

Catalogues forwarded to Chemist-Opticians on request.



Spectacle and Eyeglass Manufacturers,
HATTON GARDEN, LONDON, E.C.

SARGOL

The widely advertised remedy that makes thin people plump.

Popular and Attractive.

STEADILY ADVERTISED. STEADILY IN DEMAND.

More Customers and extra profits if you stock Sargol.

4/6 size ... ... 43/- per doz.
2/6 size ... ... 24/- per doz.

Beautiful showcards and booklets sent free on request. Write to-day for a supply—they will give your shop a good up-to-date appearance.

THE SARGOL CO., 124 HOLBORN, LONDON, E.C.

LISTERINE

The Popular American Antiseptic.

A non-toxic antiseptic of known and definite power, prepared in a form convenient for immediate use; of ready dilution, sightly, pleasant, and sufficiently powerful for all purposes of asepsis—these are advantages which Listerine embodies.

The success of Listerine is based upon merit, and the best advertisement of Listerine is—Listerine.

LISTERINE DERMATIC SOAP

Designed to meet the most exacting requirements of a saponaceous detergent for use in the antiseptic treatment of diseases of the skin. No animal fats, and only the best vegetable oils enter into its composition, and of these it contains a surplus, "superfatted." It is a bland, unirritating and remarkably efficient soap.

LISTERINE TOOTH POWDER

This powder is not intended to supplant Listerine in the daily toilet of the teeth, but is offered in response to the demand for a frictionary dentifrice to be used in conjunction with this well-known and time-tried antiseptic.

Listerine Tooth Powder, like Listerine, will advertise itself by its intrinsic merit.

BRITISH TRADE SUPPLIED BY

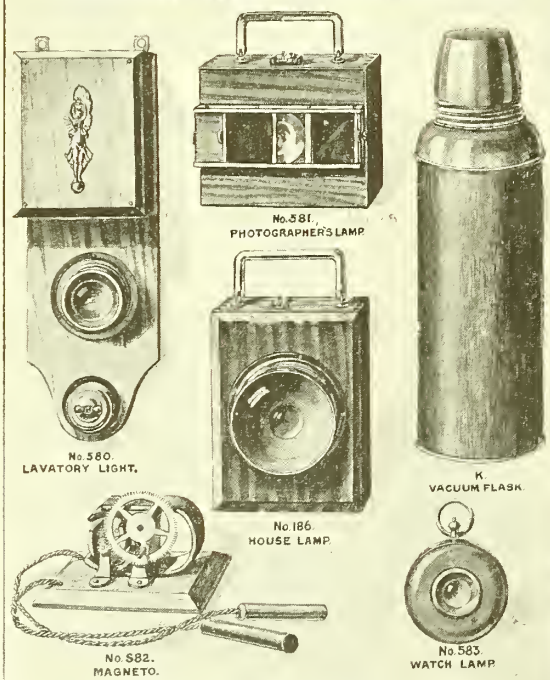
MAW, SON & SONS, 7 to 12 Aldersgate St., London, E.C.

General Agents for Great Britain.

For Descriptive Literature, Address—

LAMBERT PHARMACAL CO., St. Louis U.S.A.

SEASONABLE SPECIALITIES.



NEW CATALOGUE NOW READY.

MILLARD BROTHERS LTD.,

123, HOUNDSDITCH, LONDON, E.C.

"JUGGLER"

Reg^d

BLACK FOR LEATHER

MANUFACTURERS

WHITAKER & Co. COLOUR WORKS KENDAL, (England.)

ESTABLISHED 1878.

LONDON DEPOT, 8 Milk St. London, E.C.

(Reproduction of our Attractive Showcard.)

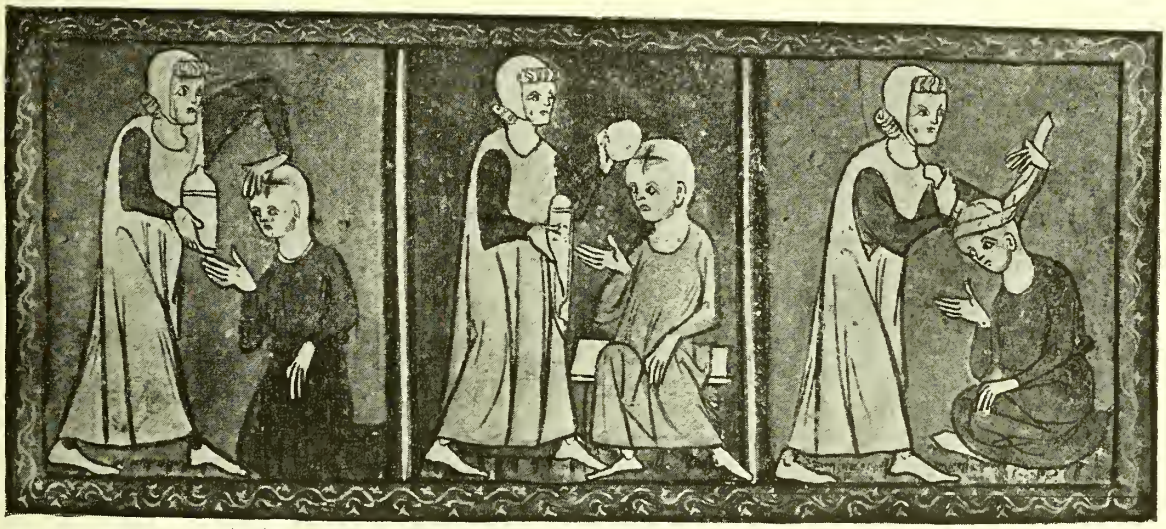
EASILY APPLIED. DRIES AT ONCE.
ONE APPLICATION. DOES NOT RUB. WATERPROOF.

Articles done with this black may be polished and worn 15 minutes after application. In bottles **6d.** each, in separate neat carton with suitable brush.

WRITE FOR TERMS AND PARTICULARS.

WE ARE HELPING YOU WITH GOOD ADVERTISING

SURGICAL SERIES 74G



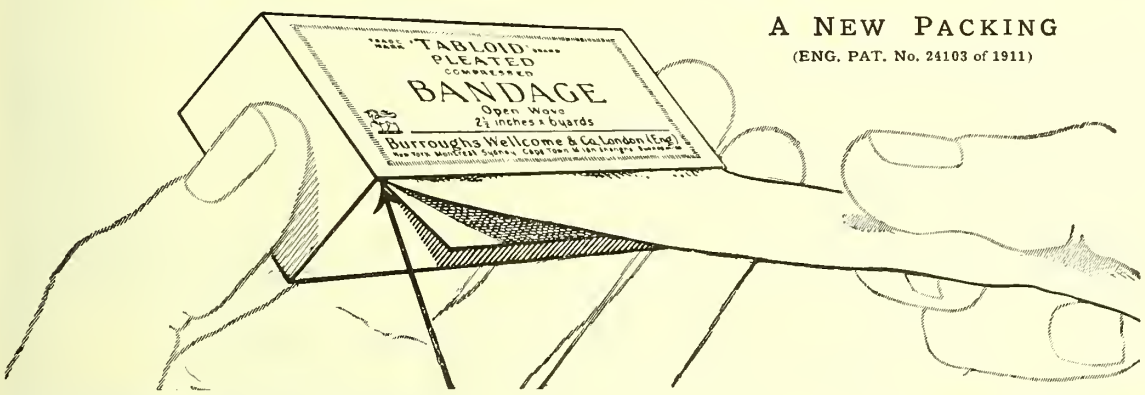
From an Early English MS.

"Of a Wounde in the Heed"

"Galienus sayth the cause of ye cure wherein is none evyll matter nor unclene moystness is on this wise. There is no nede to cut of the bone because that in the step of the heed descendeth no matter. And yf there ony matter cometh so it is in good place for to cleanse."

'TABLOID' (TRADE MARK) BRAND PLEATED COMPRESSED BANDAGES

A NEW PACKING
(ENG. PAT. No. 24103 of 1911)



ENSURES A CLEAN BANDAGE FROM BEGINNING TO END

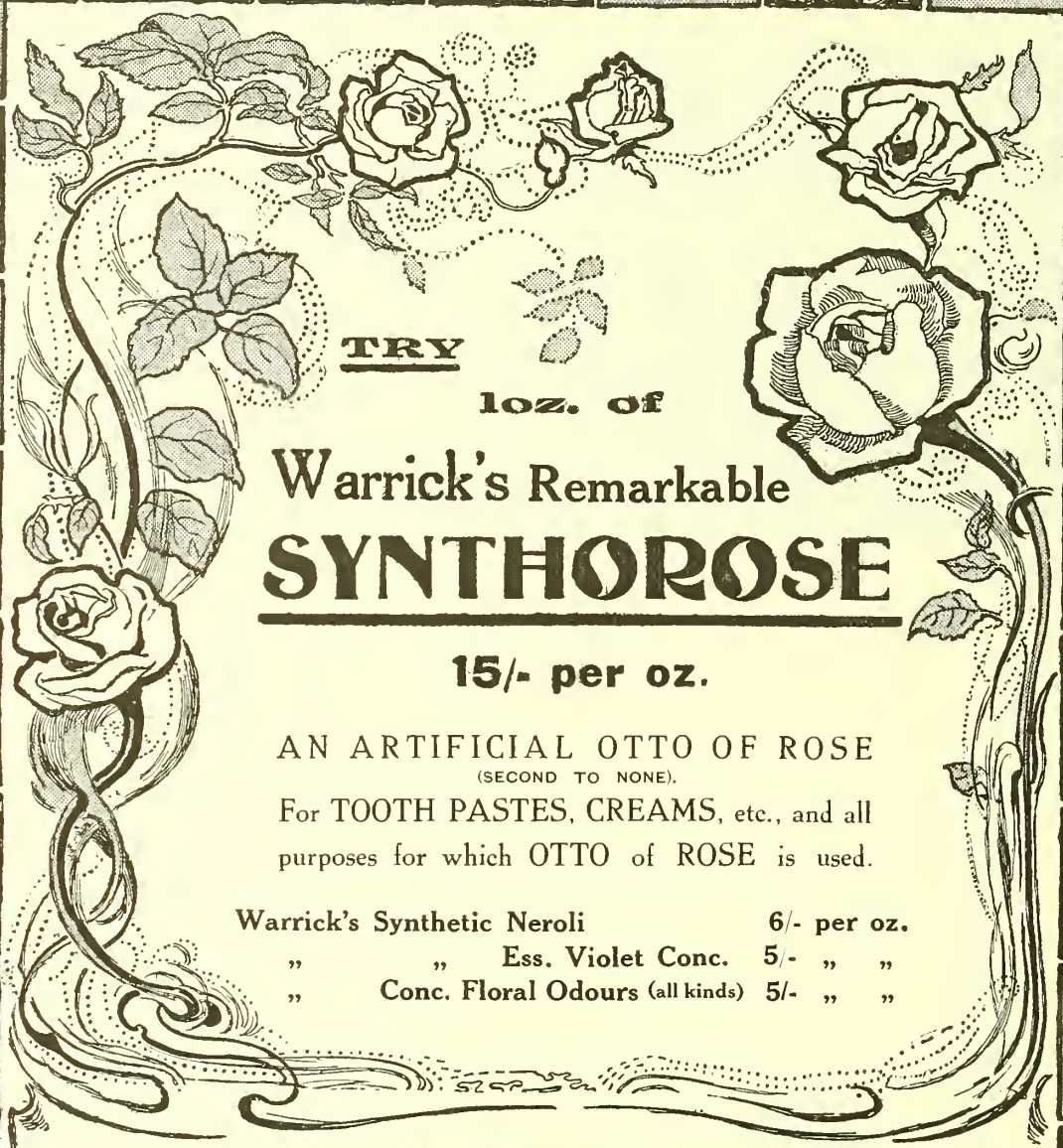
This New Packing reduces risk of contamination to a minimum. The Bandage unfolds and glides through the slot. It can be used in the same way as a roller bandage, with the advantage that every inch is clean and uncontaminated.

Pleated Compressed Bandages, Dressings and Sanitary Towels were originated and introduced by Burroughs Wellcome & Co.

For complete list, see B. W. & Co.'s Price List

BURROUGHS WELLCOME & CO., LONDON
NEW YORK MONTREAL SYDNEY CAPE TOWN MILAN SHANGHAI
BUENOS AIRES BOMBAY
London Exhibition Room: 54, WIGMORE STREET, W.
All communications intended for the Head Office should be addressed to Snow Hill Buildings, London, E.C.

COPYRIGHT



TRY

1oz. of

Warrick's Remarkable

SYNTHOROSE

15/- per oz.

AN ARTIFICIAL OTTO OF ROSE
(SECOND TO NONE).

For TOOTH PASTES, CREAMS, etc., and all purposes for which OTTO of ROSE is used.

Warrick's Synthetic Neroli		6/- per oz.
„	„ Ess. Violet Conc.	5/- „ „
„	Conc. Floral Odours (all kinds)	5/- „ „

Warrick Brothers, Ltd.,
6, NILE STREET, CITY ROAD, LONDON, N.

WARRICK FRERES EXTRACTS. . . . . .
WARRICK FRERES ROSE WATER. . . . . .
WARRICK FRERES FLORAL POMADES. . . . . .
WARRICK FRERES CONCENTRATED ESSENCES. . .
ESSENTIAL OILS: Neroli. Otto of Rose, Lavender, Thyme, Peppermint, Santal etc.

Prices of **WARRICK BROTHERS, Ltd.,** 6, NILE STREET, CITY ROAD, LONDON, N.

THE CHEMIST AND DRUGGIST

A Weekly Journal of the Chemical and Drug Trades and of **British Pharmacists throughout the Empire.**
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6*d.*; Summer or Winter Number, 1*s.* *Diary*, 8*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12·60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscricion annual: el periodico una vez por semana, y el agenda una vez por anno, 12,50 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus Cannon London." Telephone 852 Bank (two lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: Vol. LXXXI., No. 16 (Series No. 1708).

[The folios in this List and in the Summary are those at the top of the pages, but references in the Text are to the Index folios at the bottom of the pages.]

	PAGE		PAGE
At the Counter	54	Information Department	46
Athletics and Sport	57	Gazette	42
Bankruptcy Reports	42	Irish News	35
Births	43	Legal Reports	39
Books, New	52	Marriages	43
Business Changes	44	National Health Insurance	53
Christmas Trade	46	Observations and Reflections	47
Companies and Company News	42	Personalities	45
Congress of Applied Chemistry	51	Poisonings	45
Correspondence:		Practical Notes	51
Letters	62	Retrospect	64
Subscribers' Symposium	63	Reviews	52
Legal Queries	63	Scottish News	35
Miscellaneous Inquiries	64	Select Committee on Patent Medicines	37
Deaths	43	Shops Act	45
Editorial Articles:		Trade-marks	52
The Menthol Famine	48	Trade Notes	44
Johore Ipecacuanha	49	Trade Report	58
Poisonings in Scotland	50	Westminster Wisdom	53
English and Welsh News	34	Wills	43
Festivities	57	Winter Session	54
French News	36		

In the Coloured Supplement.

Australasian News.
Coming Events.
India and the East.
Our American Letter.
South African News.

DO NOT MISS

any opportunity that occurs to advance your prosperity. That is a platitude to live men in the drug, chemical, and associated trades, but there may be a few to whom one opportunity has not yet appealed. If you have anything to sell to chemists in any part of the world and have not yet advertised it in

The Chemists' and Druggists' Diary,

you have missed an opportunity. There is a chance yet to retrieve past neglect, for the Publisher is at the moment busily booking space for the edition

for 1913.

In your own interests, therefore, send to him copy and instructions at once, addressing them to 42 Cannon Street, London, E.C.

SUMMARY OF THIS ISSUE.

The more notable items only are dealt with.

Patent-medicines Inquiry.

The Select Committee of the House of Commons resumed its sittings on Thursday, when the first witness examined was Dr. Norman Walker, of Edinburgh, who gave evidence as to skin-eruptions, and was severely cross-examined.

Our report of the evidence begins on p. 37.

The Shops Act, 1912.

We print full reports of the cases heard at Bournemouth, where two chemists were fined for selling soap and a nail-brush, and at Stratford-on-Avon, where a chemist had sold coal-tar soap and a tooth-brush: in this case the summons was dismissed (pp. 40-42).

A number of orders which have been approved by the heads of Government Departments have been laid before the Houses of Parliament (p. 45).

National Health Insurance.

Medical-benefit matters are becoming warm. The Cabinet has discussed them twice this week (p. 53).

Several questions have been put in the House of Commons, and of others notice has been given (pp. 53-4).

Words of counsel to chemists by the Chairman of the Manchester Insurance Committee should be read (p. 57).

Regulation 40 provides for doctors being consulted by Insurance Committees when the "prices" of drugs and appliances are revised. We have asked the Commissioners if this is not a mistake (p. 53).

A rather severe criticism of the forthcoming prices for dispensing is contributed by Mr. J. J. Jackson, of Hereford (p. 62).

Articles and Communications.

Some more notes from the Congress of Applied Chemistry are published (p. 51).

Plant names in the new part of the "Oxford English Dictionary" are noted on p. 47.

Some particulars of the character and life of M. Becquerel are communicated by our Paris correspondent (p. 36).

Some hints as to how stores get Christmas business, especially in perfumery, are given in the article on p. 46.

In view of the approaching inquiry on drugs by the Dominions Royal Commission, we report on Johore ipecacuanha, and an exceptionally bold specimen is figured, particulars being given of cultivation in the East (p. 49).

News of the Week.

A British Empire trade-mark is a coming possibility (p 34).

A contrast of three years' cases of poisoning in Scotland is given on p. 50.

The Irish and Scottish Pharmaceutical examination results will be found on p. 35.

The estate of the late Mr. Reginald Howell, F.C.S., has been sworn for probate at 141,915*l.* net (p. 43).

Colonel Sewell, Clerk to the Spectacle Makers' Company, has been presented with a loving-cup, an address, and an album (p. 34).

Numerous items of interesting news of the drug-trade in British Dominions beyond the seas are printed in the Coloured Supplement.

John Gilbert Hewson, commission agent, 6 Bond Court, Walbrook, E.C., formerly chemical manufacturer, was publicly examined in the London Bankruptcy Court on Thursday, the accounts showing total liabilities 4,776*l.* 8*s.*, of which 4,381*l.* 8*s.* is unsecured, and assets *nil.*

Trade and Market Matters.

Particulars of the annual report of the Bandoeng Quinine Factory for 1911 are given on p. 58.

A famine exists in the menthol-market, and extreme prices are being paid. No relief can be afforded until the new crop is available (p. 48).

Cocaine, aloin, ergot, menthol, and potass. permang. are dearer. Lemon oil, cod-liver oil, balsam tolu, copper sulphate, linseed oil, and quicksilver (seconds) are all more or less cheaper (p. 58).

B

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Damage to the extent of about 100*l.* was done by fire on October 9 to the premises and stock of Middleton Bros., wholesale druggists, 13 Cheapside, Wakefield.

The prizetakers in the Chemists' section for the best displays made during shopping week at Colchester last week were : (1) Boots, Ltd., Long Wyre Street ; (2) S. Head, High Street ; and (3) A. W. Nunn, Crouch Street.

The London County Council have paid the executrix of the late Mr. F. W. Sandy, chemist and druggist, the sum of 500*l.* in settlement of her interest in No. 287 Queen's Road, Peckham, London, S.E., which is required for street improvements.

The Ledbury Guardians have decided to have medicines for the workhouse dispensed by local chemists instead of appointing a permanent Poor-law dispenser. The medical officers had offered to undertake the dispensing of medicines, but the sum quoted was higher than the average expenditure for the past five years.

At Portsmouth on October 11, Alfred James Futcher, registered dentist, Southsea, was sentenced to nine months' imprisonment under the Debtors Act for obtaining credit by false pretences. The evidence showed that prisoner, who did not practise dentistry, had used notepaper embossed with the heading "A. J. Futcher, Dental Surgeon, Clovelly, Pretoria Road, Southsea," for ordering goods by letter for which he admitted to a witness that he did not intend to pay for.

Spectacle-makers' Company.

Colonel T. Davies Sewell, Clerk of the Spectacle-makers' Company, who celebrated his eightieth birthday on September 21, was the recipient on October 16, at De Keyser's Royal Hotel, Blackfriars, London, E.C., of several congratulatory gifts. Limited subscriptions from 400 opticians and others had been applied to the purchase of a silver loving-cup, an illuminated testimonial, an album of signatures, and an enlarged photograph of himself. The address was as follows :

This testimonial, together with the accompanying album containing the signatures of his friends connected with and interested in the optical industry who had benefited by his untiring zeal and industry in promoting the welfare of the craft, and in furthering the Company's certification scheme, was given as a congratulatory record of his exceptionally long and active career, in appreciation of his administrative abilities, and his constant courtesy, and wishing him many years of health and happiness.

Mr. Joseph H. Raphael, Renter Warden of the Company, presided, and referred to Colonel Sewell's services to the optical industry in carrying out the policy of the Court. Professor Silvanus P. Thompson made the presentation. He said, that the Spectacle-makers' Company is so well known all over the world for the work it has done has undoubtedly been very largely due to the persistent, quiet, unceasing, but intensely useful work of Colonel Sewell. It is not given to everyone who is in the position of the clerk to a City company to inspire the policy of the company ; it is not given to everyone connected with such a company to cause that company to rise to such a position that its name has become a household word. That Colonel Sewell had done. He had been the pioneer through the Company of a scheme for certification which has now become world-wide. Colonel Sewell, replying, said the presentation was doubtlessly consequent upon the fact that he represented a Court that had carefully fostered and developed the trade and skill of its craft, with no other object than a desire to carry out a charter granted nearly three hundred years ago. This modern work of the Company has created as efficient a body of craftsmen as can be found anywhere in the world, and he was the happier for knowing that this has taken place within the period he had had the honour of being Clerk of the Company. The company was afterwards entertained at tea.

British Empire Trade-mark.

The first meeting of the Provisional Council of the British Empire Trade-mark Association (convened by the British Empire League) was held on October 16 at the House of Lords, Lord Avebury presiding, when a resolution was carried expressing the opinion that the establishment of a mark of origin for goods manufactured or produced in the British Empire will be of great benefit to the trade of the Empire, and expressed the hope that the Dominions Royal Commission will give the matter their most favourable consideration. The Dominions Royal Commission were also requested to receive a deputation to furnish evidence of the advantages which would be derived from the establishment of the British Empire trade-mark.

The Public Weal.

The Mayoralty of Kingston-on-Thames has been offered to Mr. C. H. Burge, F.I.C., Iddesleigh, Kingston Hill.

Alderman Smith Ward, chemist and druggist, Batley Carr, has accepted an invitation to be the Mayor of Batley.

Mr. Henry Ayre, chemist and druggist, 92 High Street, Poole, is coming forward as a candidate at the Municipal election on November 1.

Councillor Walter Aston, Ph.C., has reluctantly been compelled, owing to the claims of his business, to decline a unanimous invitation to accept the Mayoralty of Worthing.

Mr. T. Fell Abraham, Ph.C., of Messrs. Clay & Abraham, Liverpool, has accepted an invitation to contest the Oxton Ward of the Birkenhead Council in the forthcoming Municipal election.

Mr. F. B. Hirst, Ph.C., manager of the drug-department of the Batley Co-operative Society, asked his employers for permission to be nominated as a candidate in the Labour interest at the forthcoming Municipal elections. The Society decided not to grant the application. The President (Mr. J. Kershaw) said that the refusal was made purely from a business point of view, and was not influenced by the political aspect.

Analysts' Affairs.

In Lewisham last year 559 samples were analysed, but no drugs were among them.

In Southwark last quarter 328 samples were analysed, ten of which were drugs. None of the latter were certified against.

Mr. Harry Hurst, B.Sc., F.I.C., of Newport (Mon.), has been selected as public analyst and bacteriologist for the borough of Bolton, at a salary of 300*l.* per annum, rising by annual increments of 20*l.* to 400*l.* He will take up his duties on January 1, 1913.

Liverpool Notes.

The chemists of Liverpool and district, among others, have been the recipients of a booklet from Sir W. H. Lever, Bart., upon "Co-partnership."

On every hand in Liverpool at present are to be seen window-shows of Sanatogen and Formamint, some seventy having been arranged locally. They are very attractive, the window-back being draped with old-gold mercerised sateen. This, with a nice selection of dummies and show-cards, produces a very pleasing effect. Thermogene is another proprietary that is being kept well to the front on account of the "Thermogene fortnight."

The last few months have seen many retail business changes in Liverpool. The "To Let" bill is exhibited in the pharmacy recently occupied by Mr. Aspinall, Hall Lane, while Mr. Heathcote, chemist, of Kensington, closed his doors. The latter pharmacy has been open for over thirty years, while the former was established some twenty years ago. The business of Mr. H. K. Jones, Granby Street, Sefton Park, which is a high-class dispensing business, has been purchased by Mr. R. Parry, chemist, who also has a good-class business in Granby Street further along the street ; while another chemist in the Edge Hill district is shortly closing his doors. Boots, Ltd., are fitting up a new shop at 38 Dale Street.

Manchester Notes.

An excellent portrait of Mr. George S. Woolley is being shown in Guttenberg's Studio-window, Oxford Street, Manchester.

Several chemists' businesses are for sale in Manchester. One in the south-west district and another in the north-west division have just changed hands.

The source of a serious outbreak of ptomaine-poisoning in the Higher Openshaw district of Manchester is at present shrouded in mystery. Two children have died so far; about a hundred are ill.

Contracts.

Wigton Guardians.—Sproat & Co., chemists, Wigton, for drugs.

Bury St. Edmunds Guardians.—Mr. W. E. Youngman, chemist, Bury, for drugs, etc.

Hereford City Hospital.—Mr. W. S. Marchant, chemist, Hereford, appointed druggist for six months.

Bath Guardians.—J. G. Ingram & Son, for waterproof sheeting; Tylee & Cooper, Bath, appointed chemists for urgency orders.

Worcester Guardians.—Anderson & Virgo, appointed chemists for St. John's district, Mr. A. T. Saunder for the North district, and Mr. C. A. Steward for the South district.

Havant Guardians.—Lancaster & Crook, Waterlooville, morphine at 6*s.* oz.; Mr. H. H. Righton, chemist, Havant, for Benger's food at 1*s.* 10*d.* per tin, absorbent wool 9½*d.* lb., boric-acid crystals 4½*d.* lb., do. powder 4½*d.* lb., bowel or diarrhœa mixture 6*d.* pint, castor oil 10*d.* pint, camphorated oil 1*s.* 5*d.* pint, cod-liver oil 9½*d.* pint, cotton-wool 9½*d.* lb., cough-mixture 1*s.* 10*d.* gal., eucalyptus oil 2*s.* 6*d.* pint, glycerin 1*s.* 7½*d.* pint, liquorice-powder 6*d.* lb., lint 1*s.* 4½*d.* lb., boric lint 1*s.* 3*d.* lb., Lysol 10*d.* bott., pills 7½*d.* gross, sulphuric ether 2*s.* pint, carbolised tow 6½*d.* lb., surgical tow 4½*d.* lb., white oils 1*s.* pint; Mr. G. E. Standing, Havant, McDougall's soap-powder 1*l.* 12*s.* 6*d.* per gross 1-lb. pkts., disinfectant-fluid 2*s.* 3½*d.*

Bovril and Oxo.

At a meeting of the Cardiff Grocers' Association on Tuesday evening, October 15, it was reported that the S.W. Council had written to the manufacturers of bovril suggesting that they should invoice bovril at a price which would show a profit of 15 per cent.; but they replied expressing their inability to do so. Mr. D. R. Gwillim mentioned that the chemists are not all selling at the enhanced prices agreed upon by themselves and the grocers, but were selling the 2-oz. bottle at 11½*d.* and the ½-lb. bottle at 2*s.* 11*d.* As Boots, Ltd., are about to open in Cardiff, he thought they should again approach the chemists and get them to put up the price of the smaller bottle to 1*s.*, otherwise Boots' would sell at 11½*d.* It was decided to communicate with the chemists' Secretary on the subject. A scheme proposed by the Lemco Co. to give a bonus of 1*d.* per bottle on Oxo to all assistants who pushed the article met with strong condemnation, and it was resolved to urge the S.W. Council to take action in the matter.

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Pharmaceutical Society of Ireland.

The following are the results of the examinations held in Dublin:

Pharmaceutical Licence Examination.—The following have passed: Benjamin Logan, Downpatrick; Henry Joseph Manley, Clones; Joseph Wellwood, Belfast; William Cummins, Thurles; John Murphy, Belfast; Thomas Mitchell, Belfast; Thomas Patrick Toher, Kingscourt; Thomas King Beattie, Fintona. Eleven candidates were rejected.

Registered Druggist Examination.—The following have passed: David Thomas Boyd, Belfast; Joseph Irwin, Belfast; David Jameson, Bailieborough; Herbert McRoberts, Belfast. Four candidates were rejected.

Pharmaceutical Assistant Examination.—The following have passed: Robert Edgar, Dublin; Peter Macarthur, Belfast.

Brevities.

Tenders for drugs and surgical appliances are asked for by the Governors of Steeven's Hospital, Dublin.

Mr. Henry C. Thackeray, Ph.C., South Great George's Street, Dublin, has transferred his pharmacy to Upper Stephen's Street.

The new branch pharmacy of Messrs. Hayes, Conyngham & Robinson, Ltd., at 51 Henry Street, Dublin, was opened last week. There was a "free-gift" day on October 11.

Dr. J. A. Walsh, Ph.C., Westmoreland Street, Dublin, is putting in a new front to his pharmacy and making other external and internal structural improvements in the premises.

Mr. J. P. Timmon, Ph.C., Vice-Chairman of the Navan Board of Guardians, has resigned that position as a protest against adverse and undeserved criticism that has been made of his conduct in the chair.

At Castlewellan, co. Down, last week, Mary Reavy was charged on remand with attempting to murder her son-in-law, John Campbell, by administering strychnine to him in porter. Prisoner was committed for trial.

Mr. Bernard Hirson, Ph.C., proprietor of the Rathmines Road Pharmacy, Dublin, has been awarded the first prize of 2*l.* and medal of the Royal College of Surgeons in Ireland for distinguished work in practical anatomy at the College.

Fire.

A fire occurred at the end of last week on the premises of Messrs. Wm. Dobbin & Co., wholesale druggists, North Street and Long Lane, Belfast. It was caused by the bursting of a bottle of ether, and the vapour coming in contact with a gas-flame caused a loud explosion. Within a few minutes the fire brigade came on the scene, but the fire had then made great headway, so that the brigade concentrated their efforts in the direction of cutting off the fire from the main portion of the establishment, now in process of reconstruction. In this they were successful after about half an hour, but the damage done (covered by insurance) was very considerable.

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Pharmaceutical Examination in Edinburgh.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who passed the Minor examination held in Edinburgh this month and were granted certificates of registration as chemists and druggists:

Alexander, Isabella Ann, Banff
Barr, George H., Greenock
Brameld, Charles, Hull
Crossley, Algernon G., Halifax
Currie, Thomas, Auchtermuchty
Dinwoodie, Samuel J., Glasgow
Etchells, Gilbert H., Carlisle
Foggan, Doswell, Newcastle-upon-Tyne
Gillespie, Mungo, Grangemouth
Grieve, David, Dunfermline
Griffiths, George E., Penrith
Halliwell, John, Glasgow
Kay, Janet Brown, Glasgow
McGregor, F. W. S. C., Keith
Milne, Andrew, Forfar
Mitchell, James, Huntly
Pirnie, John D. P., Burntisland
Pirrie, Chas. Alex., Rothiemay
Solomon, Ernest, Johannesburg, Transvaal
Stoddart, Marcus, Edinburgh
Walker, A. F., Ashbourne
Watson, Lundie, Leuchars
Williams, John Hugh, Blaenau-Ffestiniog
Whyte, Katharine D., Arbroath

Edinburgh.

There is almost an epidemic of mild influenza cases at present, mostly of the sore-throat and cold-in-the-head varieties.

On Wednesday, October 9, a football match was played between Edinburgh Police and Edinburgh Pharmacy teams. Result: Police, 4 goals; Pharmacy, 0.

In the report for the half-year ended September 10 of the St. Cuthbert's Co-operative Association, Ltd., Edinburgh, it is stated that the profits admit of a dividend of 4*s.* 4*d.* in the pound on members' purchases and 2*s.* 2*d.* to non-members. The net sales in the drug-departments of five branches are given as 3,456*l.* 18*s.* 10*d.*, and debts transferred as 2,627*l.* 2*s.* 11*d.* The total distributive trade expenses were 1,103*l.* 1*s.* 7*d.*, wages amounting to 938*l.* 11*s.* 2*d.* The net profit-and-loss account (including the Lochrin Place drug-department) is 1,471*l.* 3*s.* 8*d.*

Glasgow and the West.

Over 90 per cent. of the proprietors of chemists' businesses in Glasgow are prepared to consider their health as even being before the public interest on one half-day per week. So writes a correspondent in the "Herald."

The firm of J. T. Simpson, chemists and druggists, 691A Great Eastern Road, Parkhead, Glasgow, of which Dr. David Young and Mr. John Templeton Simpson were sole partners, was dissolved on October 3 by the retirement of the latter.

Not a few local chemists who use the city coat of arms on their labels and stationery will require to withdraw them, the Corporation having issued an order declaring it an offence punishable by law to use the coat of arms for any business or other purpose whatsoever.

The quarterly report of the St. George's Co-operative Society drug-department, which has just been issued, shows the following statement for the period just ended: Sales, 203*l.* 0*s.* 9*d.*; expenses, 102*l.* 9*s.* 3*d.*, including wages 66*l.* 17*s.* 6*d.*; stock, valued at 533*l.* 9*s.* 3*d.* The net profit shown for the quarter is 42*l.* 15*s.* 10*d.*

It is intimated by Mr. George D. Stirling, C.A., trustee on the sequestrated estates of MacNaught Bros., chemists, Greenock, and Archibald Hamilton MacNaught, the only partner, that an account of his intromissions with the funds of the estate has been audited, but the commissioners have postponed the declaration of a dividend.

Brevities.

Dr. D. J. Peebles, son of Mr. T. S. Peebles, chemist, Lochee, has been appointed a resident medical officer in Dundee Royal Infirmary, where his father was at one time dispenser.

Mr. Thomas Yule, pharmacist, High Street, Cowdenbeath, is not to seek re-election at the forthcoming Municipal election. In his letter to the Council, Bailie Yule gives "extra work to be imposed upon the drug-trade by the Insurance Act" as the reason for his resignation.

At last week's meeting of Urr Parish Council in Dalbeattie, a communication was read from the Local Government Board objecting to the cost of medicines being included in the medical officer's salary. The Chairman said the salary was 40*l.* a year, which includes all inward medicines, but the Council pays for all outward medicines.

The following notes are additional to the brief obituary notice in our last issue regarding Mr. William Inglis, a Transvaal chemist. He was born in Glasgow, and went out to South Africa at an early age, where he took up pharmacy. He returned in 1894 in order to qualify, passing the Minor in 1895. He had endeared himself to a wide circle of friends. The funeral took place on September 7 with full Masonic honours.

Meetings of the Highlands and Islands Medical Inquiry Committee were held in Sutherlandshire last week. Evidence on behalf of chemists was given by Mr. Mennie, Golspie, Mr. John Fraser, Helmsdale, and Mr. Smith, Stornoway. It was pointed out that the sale of drugs, including American proprietary medicines, is much larger than medicines supplied by doctors' prescription. It was also given in evidence before the committee that the straitened circumstances of the bulk of the people frequently prevented them from calling a doctor even when available.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

The French Wholesale Druggists' Association has elected M. Michel (H. Salle et Cie., Rue Elzévir) to be President, in succession to M. Léon Darrasse.

White Clover.—At the last meeting of the Académie des Sciences Professor Guignard reported that Mirande has succeeded in proving the presence of hydrocyanic acid in white clover (*Trifolium repens*). The quantity present is 15 milligrams in 100 grams of young fresh clover, and in the older leaves the proportion is less, but the quantity is enough to account for the poisoning fatalities from clover which farmers have reported.

Falsified Mineral Waters.—A mineral-water dealer of the Rue Lemercier, Paris, named Lebas, *alias* Deloison, has been prosecuted for selling falsified mineral waters, which consisted of ordinary "tap" water gasified by carbonic acid. He was sentenced to four months' imprisonment and a fine of 500f. (20*l.*). The prosecution took place at the instance of the Syndicate of Mineral-water Dealers and the Paris Syndicate of Pharmacists. The counsel for the latter body was Maître Crinon, son of the eminent Paris pharmacist.

French Medical Congress.—The thirteenth French Congress of Medicine was inaugurated in Paris on Sunday evening last in the spacious rooms of the University of Paris at the Sorbonne, and was followed by a brilliant reception. The scientific meetings of the Congress were commenced on Monday morning at the Faculty of Medicine, with Sir Dyce Duckworth, of London, in the chair. The Congress is organised by the Association of French-speaking Physicians. An exhibition of medical accessories is held in connection with the Congress, and is much on the same lines as that held last week concurrently with the Congress of Surgery, reported in the *C. & D.* of October 12. A number of French pharmaceutical firms make excellent displays at the exhibition, which terminates this week with the Congress.

The late Antoine Henri Becquerel, the subject of the Chemical Society's memorial lecture, was a little, lively, sparkling man, with ever-restless eyes that saw and interested themselves in everything. There was nothing of the traditional *sans-gêne* of the savant about his dress, his neckties were as novel and varied as his scientific discoveries, and his silk hat possessed little of the non-reflective properties of the Becquerel rays. His wife, somewhat taller than her husband, was equally elegant and cultivated. They lived in a "hôtel" (or private house as distinguished from the usual Parisian "flat") in the Rue Dumont d'Urville, close to the Arc de Triomphe, and were frequent and welcome guests alike at scientific and fashionable gatherings. When in 1903 MM. Becquerel and Curie divided the Nobel prize, the former visited Stockholm. He dined with King Oscar, and subsequently delivered an impromptu scientific lecture in the presence of his Majesty, an obliging Swede manipulating the illustrative slides of the magic-lantern, for which a small royal work-table served as a pedestal. Becquerel's discoveries in optics and electricity are too classic to need description in detail. I need allude only to his discovery in 1896 of the famous rays emitted by uranium and its compounds. Grandson of the great physician César Becquerel, of the Institute, and son of M. Edmond Becquerel, he was an eminent member of a distinguished race of scientists. Born at Paris in 1852, he was at twenty a student at the famous Polytechnic School, graduating as an engineer of the famous French Official Corps of Bridges and Roadways. He took his D.Sc. in 1888, became Professor at the Conservatoire des Arts et Métiers, and, later on, at his own school, the Polytechnic. It was in 1878 that he entered the Museum d'Histoire Naturelle as an assistant naturalist, and in 1892 that he succeeded to the Chair of Applied Physics at this ancient and famous scientific establishment. He also occupied a chair at the Agronomical Institute. He was elected a member of the Academy of Sciences in 1889, and in 1908, the year of his death, was chosen for the much-coveted post of Perpetual Secretary, a position long held by the late famous chemist Marcelin Berthelet. Professor Becquerel died at Le Croisic, a Breton seaside resort, on August 24, 1908, at the zenith of his career, a worthy representative of the notable band of French scientists who have been his contemporaries.

Four Penny Stamps sent to the Office of the *C. & D.*, 42 Cannon Street, London, E.C., will pay for a card-guide to the stamping of medicines. It shows the grounds of liability and exemption, and is eyeletted so that it can be hung up ready for quick reference.

Select Committee on Patent Medicines.

Appointed by the House of Commons to inquire into the sale of patent and proprietary medicines and medical preparations and appliances, and advertisements relating thereto. Record of Evidence given on October 17.

THIS Committee resumed its meetings, after an interval of over two months, on Thursday, October 17, at half-past eleven, but deliberated in private until nearly twelve o'clock, when the public were admitted. There was a large attendance of members of the Committee, Sir Henry Norman being in the chair. Other members present were Mr. C. Bathurst, Mr. Cawley, Dr. Chapple, the Right Hon. Sir J. Henry Dalziel, Mr. Glyn-Jones, Mr. Hayden, Mr. Haydn Jones, Mr. Lawson, Mr. Lynch, Sir Philip Magnus, Mr. Newton, and Mr. O'Grady, who has taken Mr. Hodge's place on the Committee as the representative of the Labour party.

Dr. Norman Walker,

Treasurer of the Royal College of Physicians, Edinburgh, was called. He said he appeared instead of Sir Thomas R. Fraser and Professor Ralph Stockman. Having mentioned the old and obsolete provision of his College for visiting annually all apothecaries' shops, he proceeded to speak of the action of drugs on the skin. In some respects the skin is more useful for demonstration purposes than other organs, and he had had a number of wax casts prepared in order to show the Committee the result of taking certain drugs. He then described effects of patent, proprietary, and Pharmacopœia medicines on the skin, mentioning and illustrating rashes produced by chrysarobin and belladonna. One of his patients, he added, had come to him with an eruption due to applying Captain Collier's cure for rupture, which consisted largely of turpentine. The man was in the hospital for three weeks. Another patient experienced disagreeable results by rubbing himself with a rheumatic liniment. Witness proceeded to describe skin troubles which sometimes follow administration of antipyrin, opium, morphine, and potassium bromide. The last, he said, is given as a quieter to children and in epilepsy remedies. After a prolonged search, he informed the Committee, they had found a proprietary preparation, "Sabromin," which controlled epilepsy without producing a rash. Mentioning that iodides are used for syphilis, witness added, rather slyly, that it is unwise to give a testimonial that one has been cured by a proprietary remedy containing that drug. The human body is a very complicated structure, and if they administered a certain mixture to every one in that room one or two might suffer and the others might not. Witness also referred to eruptions caused by arsenic and its other effects on the skin. A wax model of a hand of a patient was shown in which cancer had been produced by witness by the administration of arsenic. Active remedies were occasionally included in teething-powders. A child had come to his department with an irritation which he had not recognised at first. He had found that that child was taking

A Well-known Soothing Powder

which was dealt with in the British Medical Association's book, "Secret Remedies." It contained calomel. Asked what powder was referred to, witness was uncertain whether it was Steedman's or Stedman's, but the Chairman pointed out that, according to "Secret Remedies," both contain calomel. The suggestions which he put forward were that the names of the ingredients should be stated on the label, which should be a warranty under the provisions of the Sale of Food and Drugs Acts. He thought that no proprietary medicines should contain any drug which might do harm. He suggested that a board of experts should settle the question as to what are active remedies.

Cross-examination.

The Chairman: Any drug may do harm?—Witness: He meant serious harm. At any rate, it should be very definitely stated what the effect would be. He felt there would be some difficulty in defining the use of the word "active." He would suggest that there should be a Board which should be satisfied with what the word "active" meant.

In reply to Mr. Glyn-Jones, witness said he did not think it would be necessary to include the quantity of the drug. He did not think it would convey very much to the lay mind.

Mr. C. Bathurst: The Scottish County Councils Association say the name and quantity should appear on the label?—I do not think the quantity is of so much importance as a statement that certain active ingredients are included.

Then you are content with the name only?—Yes, I think that would go a long way.

The Chairman: In these teething powders, you want it to be said that they contain mercury?—Yes. I always keep the British Medical Association's book, but that does not contain all these remedies.

Mr. C. Bathurst: Would it be sufficient to say that calomel was included in the preparation? Do you think that would suggest anything to the ordinary mind?—I think the doctors would know all about it.

Oh, it is for the instruction of the doctors!—I do not think the public would know very much about it.

This inscription on the label is not intended to act as a deterrent to the public, but rather as an instruction to the medical profession?

Witness replied that it would be useful to a great many people. There were many people who would not take certain medicines if they knew what they contained. He did not think, for example, that a man would go readily to buy a bottle which he knew contained iodide of potassium.

I see some difficulty in your suggestion that no proprietary medicine should contain any drug likely to do serious harm?—Well, it is undesirable that things which are likely to do serious harm should be sold.

But is it not very difficult indeed to say what ingredient is calculated to do serious harm? Take, for example, nux vomica?—That would have to be taken in considerable quantities to do serious harm.

That is the whole point. Would you make it illegal to make up any preparation of proprietary medicine containing nux vomica because if too much were taken it might do serious harm?—If you do that you will stop the sale of all remedies, and that might be a very good thing. (Laughter.)

In reply to Mr. Glyn-Jones, witness said that he was not aware that the Edinburgh College had ever exercised their power to visit the shops and examine the drugs, though they had it on record that there had been disputes between the College and the Town Council as to which body should do it. The effect of drugs upon the skin varied very much with different people, and no doctor prescribing belladonna, for example, would know whether it would produce an eruption or not.

Mr. Glyn-Jones: Do these cases of eruption due to the use of drugs bear a large proportion to the numbers of cases you are treating?—Not very large.

When they arise, are they serious in their effects?—Some of them are.

Witness, holding up a bundle of cards, said they were records which showed the extraordinary perseverance with which people went on rubbing in turpentine, although it was obviously doing harm.

Mr. Glyn-Jones: When something happens to the skin, does not the patient know very quickly that everything is not right?—Yes, any ill effects are shown on the skin at once.

When an eruption appears on the skin, would not a great majority of people be put on their guard at once?—Yes, in a great many cases, especially where it is an external application. When the remedy is taken internally you cannot expect the patient to assume that the medicine is the cause of the eruption.

You told us that the bromides and iodides, in some cases, cause eruptions. You then said that in a particular case of epilepsy under your treatment it was necessary to go on giving bromide, and that you found if a proprietary bromide was used it did not cause the eruption. What was that preparation?—It was Sabromin. Witness added that it was

found that this preparation controlled the epilepsy without producing an eruption.

Mr. Glyn-Jones recalled what witness had said on the subject of teething powders, and, reading from the directions on the particular powders referred to, said the instructions were that a powder should be given twice a day, whereas in the case in question the mother had given a powder three times a day. He put it to the witness that people sometimes take too frequent doses of a doctor's medicine, contrary to directions, and to this Dr. Walker assented.

Asked whether no proprietary medicines ought to contain any of the drugs he had mentioned as causing eruptions, witness said that antipyrin should not be allowed.

Is the general effect of the valuable evidence you have given to us this—that no layman ought really to take medicines unless under the supervision of a doctor who understands them?—Yes, I think so; that is the ideal.

Mr. Newton: Your point in producing these casts, he said, is to give us an assurance that these evil results have been produced on the skin, and we may infer that, could you have produced casts of internal results, they would have been just as horrible?—That is really the point.

You said just now, speaking of an epileptic patient, that a doctor tried one remedy after another. That, of course, is what a patient very often does, and does not consult a doctor at all?—Quite. Perhaps I should have been a little more particular, and should have said one preparation of bromide after another.

You would say that a doctor is qualified to try one preparation after another, because he can judge of the effects, whereas the patient cannot?—Yes. Witness added that he could at leisure compile a list of drugs which should in no circumstances be taken, except under the advice of a doctor who understood the patient's case, and another list of drugs which need not be so restricted.

Do you think, said Mr. Newton, that a list should be compiled of diseases which it should be illegal for anybody to offer to cure?—It is wicked that people should take things for which the claim is made that they will cure cancer. They go on taking these things, and the result is that they do not come to the hospital until they are too far gone. We sometimes hear of people taking these so-called remedies for six months.

What about phthisis?—I think the same thing applies.

And rupture?—In some cases it is impossible to cure rupture.

Answering Mr. Lawson, witness said his objection to patent and proprietary medicines is that they are taken by people in ignorance of their effects. There is a very widespread belief—it used to be wider—that arsenic is a remedy for every skin-disease. He knew of a case where a patient obtained a prescription from a doctor which contained arsenic, and went on taking it for nine years without once consulting a doctor again. "I think there is too much faith put in arsenic," Dr. Walker added.

Mr. Lawson: It is not due to proprietary medicines that arsenic has been given so freely?—I do not think so.

Of course, there is an additional risk likely to be run under the National Insurance Act, when drugs will be obtained freely, and therefore more frequently, by the great body of poor people for supposed diseases?—I hope there will be no encouragement to people to obtain prescriptions and go on using them indefinitely without again consulting a doctor.

But free drugs will be a great temptation to those who are fond of drugs?—Surely they are not going to get a prescription which they can go on using indefinitely? Witness added that the regulation regarding the statement on the label should apply to remedies supplied by chemists, just as much as to proprietary medicines. He was against any secret remedies, but he really did not profess to have much knowledge as to whether there is great secrecy at present in the preparations. He would not allow any dangerous ingredient to be included in patent medicines.

Dr. Chapple: Do you really think if the ingredients were stated on the label, no matter how false were the claims put forward, that people would be deterred from taking the remedy?—I think it would be a good thing. It would considerably mitigate the evil from which we suffer.

Witness caused some amusement by remarking, "I think you must be a medical man." The Chairman laughingly replied, "Don't let that influence you at all."

Would you hesitate to go further and give every individual who suffered in consequence of a false and extravagant claim a remedy at law?—I think in a case like that of a man who was ruptured, and had to be in hospital for three weeks in consequence of the application of a remedy containing turpentine, there ought to be a remedy at law. It would not seem an unfair thing that the board which he suggested should be set up should have power to aid anyone who had suffered to get redress at law.

Replying to Mr. Lynch, witness said that though theoretically desirable, he doubted whether in practice it would be possible to establish a censorship over advertisements of patent medicines in newspapers. He would, however, deal drastically with advertisements promising to cure certain diseases. Mr. Lynch further drew from witness that Sabromine was very dear. He prescribed proprietary medicines when necessary. As an example, he said, "I do frequently order Wright's Liquor Carbonis Detergens because there is nothing like it in the Pharmacopœia."

Sir Philip Magnus questioned witness as to what he would do in the case of medicines containing no active ingredient. Quoting from "Secret Remedies," he asked what would be the active ingredient in Veno's Lightning Cure? Witness was unable to say, but added that he did not think the public is sufficiently educated to know the difference. Cuticura ointment, he said, contains no active ingredient.

The Chairman: Don't you think if it was stated on the label, "This bottle is guaranteed to contain 80 per cent. of pure H_2O it would mystify some people?"—Witness nodded his head and laughed.

After questioning the witness in regard to the value of placing the names of the ingredients on the label, the Chairman remarked: According to your suggestion, in most cases the patient would not get any benefit from the new law until he went to a hospital, or a doctor told him what it was he had been taking. Do you suggest that the medical profession cannot conduct this diagnosis by other means than by giving this information?—I am very anxious to have all information which comes to me, and it is a great advantage.

With regard to advertising, what restrictions do you advise?—All claims to cure certain diseases should be stopped.

Mr. C. Bathurst: Do you think there will be less self-diagnosis in consequence of the Insurance Act?—Yes; I think that if a patient has a right to go to a doctor he will do so.

In reply to further questions by the Chairman, Dr. Walker said his evidence amounted to a statement that there was a widespread evil caused by the ignorant use of widely advertised drugs, which called for legislation. He admitted that they could not legislate for the absolutely ignorant, but the suggestions which he had made would be an additional protection to a large section of the public. In reply to Mr. Glyn-Jones, he said doctors occasionally wrote on their prescriptions, "Not to be dispensed more than once," or "Not to be dispensed after a certain date." It would be very useful if that were done more generally, and the repetition of such prescriptions by a chemist was prohibited.

The Chairman thanked Dr. Walker for his evidence.

The "Truth" of the Matter.

After luncheon, Mr. G. Paternoster, assistant editor of "Truth," gave evidence. He said that for years "Truth" has been exposing the methods of quacks. He then referred to methods of advertising, which are often of an indirect character. For instance, a remedy is offered free as a trial, or an offer is made of a book describing a method of treatment. The applicants then receive follow-up letters until they purchase some of the remedy. The newest method, he said, is to insert a paragraph in a newspaper giving a prescription, but when a person takes this prescription to a chemist he finds that one of the ingredients is a proprietary article. As instances he quoted barkola, sanitol, lavonée de composa, parsidium jelly, telmo, and mercolised wax.

The Chairman: These are really farcical prescriptions?—Witness: Oh, yes.

Continuing, witness said that a campaign for the sale of Eckmann's Alterative is about to be begun in this country. The method employed is to write to clergymen and enclose six postcards to be given to parishioners who suffer from a disease. The postcard is a request for a free supply of the medicine, which the patient receives until he is cured. The representative of the proprietors informed "Truth" that the object is to obtain testimonials. Introducing medicines through clergymen is a favourite method with some advertisers. He gave as a further instance E. J. Wood's drunkenness and tobacco-habit cures, the proprietor of which offers clergymen 8*s.* per head for each patient induced to buy the remedies. M. A. Winker's "Chocolate Drops" offer agencies to all sorts of people, including generals and bishops. Witness had something to say regarding liquozone and the Viavi remedies. The latter, he said, are not offered through the trade—the worst

kinds of medicines are not sold through the trade. Macaura's career was mentioned. After exhausting London he went to Paris and Amsterdam; and the Chairman, interposing, said that Macaura was working Italy when he (the Chairman) was there the other day. Some amusement was caused when witness said Macaura is an Irishman from Skibbereen. The follow-up system is largely employed by the army of American patent-medicine vendors who have invaded this country within the last five years. He explained that the more stringent laws in America against quack medicines are the cause of the invasion of this country by the Americans. As an instance of the way proprietary medicines are treated under the law in the United States he referred to Radol cancer-cure, which consisted of an acid solution of quinine. The proprietors were prosecuted for misdescription. There is a similar article in this country, under the name of Dr. Shower's radium-salve. This remedy was introduced in this country by a letter in the "Daily Telegraph" from Mr. G. A. Richardson, Secretary of the Stamford Street Skin Hospital, who referred to cures that had been made of cancer with radium in that hospital. The letter was afterwards used as an advertisement for Dr. Shower's radium-salve, and witness understood that Mr. Richardson had had to leave the hospital partly in consequence of having written the letter. The remedy referred to gives a formula on the label, but it is unintelligible, as one of the ingredients is "radium contentrate matt." Witness next referred to medicines which had been driven out of Germany, mentioning antineurasthenin, and giving a long account of the origin of this remedy in Berlin. Some uncomplimentary references were also made to Mr. A. B. Griffiths, an analyst who supplies reports for such medicines. There are other remedies sold for sexual diseases, but considerable difficulty is experienced in getting evidence from those who receive the circulars, as people do not like to be identified with such remedies. A curious history was given of O. E. Miller, of Isleworth, who has a method of curing consumption, which consists in first starving the patient and then keeping him in a partly unconscious condition by means of hyoscine. This man so impressed the Duke of Manchester that the latter partly financed his institute. One of the patients was a German prince of the blood, who paid 1,000*l.* for treatment and died after leaving the institute. Miller said witness founded a university in the United States and conferred upon himself medical degrees. Mention was made of Dr. Yonker, a horse-doctor, who runs a cure for consumption under the name of tuberculosyne. Then came particulars about a Mr. Heynol, who owns the Weidhaus Hygienic Institute at Burgess Hill and induced Dr. Macnamara to open an extension of the sanatorium. (Laughter.) Witness then referred to a number of deafness quacks, deafness being, he explained, one of the most popular diseases which quacks take up. One Marr, who employed the murderer Crippen, is the largest advertiser in this line. He trades, or has traded, under numerous aliases, but always supplies his remedies by post. He was Keith-Harvey for years, then Frankael, next the Oral Remedies Co., and is now Holmes Shirley. This led to a description of the methods of the Drouet Institute, which was broken up through the exposure it received in the Law Courts. Other deafness specialists are Edward Gardner, Dr. Guy Clifford Powell, Laurence E. Palmer, and Professor Hoffman. The last-named supplies two tiny pieces of rubber for 25*s.*, but comes down to 5*s.* 6*d.* if the patient does not respond to the earlier letters. Some advertisers offer to return money if no cure results, but there is always a difficulty in obtaining a fulfilment of this guarantee. The Chairman, interposing, said that recently, owing to the investigations of the Select Committee, one of these advertisers had returned the money claimed. Witness then proceeded to speak of alcohol cures, but as it was a quarter to four the Chairman asked witness if he would come again on the following Thursday and continue his evidence. This he promised to do, and the Committee adjourned till October 24.

The Sales in the drug-department of the Dunfermline Co-operative Society amounted last quarter to 573*l.*, an increase of 54*l.* over the corresponding period of 1911.

LEGAL REPORTS.

TRADE LAW.

Bottles for Bombay.—In the City of London Court on October 10, before Judge Lumley Smith, K.C., Johanigman Bros., Ltd., 80 Finsbury Pavement, E.C., claimed 5*l.* 10*s.* 3*d.* from Tulloch & Co., 4 Fenchurch Avenue, E.C., being balance of account for supplying them with bottles. Mr. Lever, for the plaintiffs, stated that the defendants had raised a counterclaim for 22*l.* 12*s.* In December 1909 defendants gave the plaintiffs an order for three sizes of glass bottles—½ oz., 1 oz., and 2 oz.—to take oil, scent, hair-wash, etc., and they were supplied. They amounted to 5*l.* 7*s.* 1*d.* In March 1910 plaintiffs delivered another lot of 4-oz. bottles. Defendants paid 5*l.* 7*s.* 1*d.*, but only 8*l.* 9*s.* 9*d.* in respect of the second lot amounting to 14*l.* Hence the present claim.—Mr. D. H. Pritt, for defendants, said that the bottles were supplied for sending to Bombay. They were not according to sample, and their customers would not take them. Defendants paid the 5*l.* 7*s.* 1*d.* before they heard that the bottles were refused at Bombay, and they deducted from the second amount due that which must come off the first lot. That was commercially right, but legally wrong.—Mr. Lever, in reply, said as the defendants had the opportunity of inspection at Bombay the property in the goods passed to them at the London docks, and defendants could make no claim for anything that happened to the goods afterwards. Section 15 (2, B) of the Sale of Goods Act says that there is an implied condition that the buyer should have an opportunity of comparing the bulk with the sample. It also provides that there is an implied condition that the bulk should correspond with the sample in fact. If the plaintiffs could show that the defendants had an ample opportunity of seeing the goods when they passed beyond the plaintiffs' hands, even if they did not correspond with the sample, they could not make the plaintiffs pay damages and dock charges and duties accruing in India about which the plaintiffs knew nothing. That was the basis of the counterclaim. Defendants said that they had resold the goods worth 2*l.* 7*s.* 6*d.* for 1*l.* 15*s.* 7*d.*, and now wanted the plaintiffs to pay 5*l.* 10*s.* 3*d.* for them. Mr. Pritt said that the defendants had made every effort to sell the bottles, but some of them had upon them the name of the customer in Bombay for whom they were intended.—Judge Lumley Smith said that made them worthless to anybody else. Subsequently, after further argument and evidence, during which it transpired that Messrs. Tothill, Sharp & Co., Bombay, had ordered the goods, his Honour said at present he thought the defendants were justified in rejecting the goods and were entitled to damages on their counterclaim, but he would take time to consider his decision as the parties attached importance to the matter.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

Kodak Works at Harrow.

In the Court of Appeal on October 16, before Lords Justices Vaughan Williams, Buckley, and Kennedy, the appeal of the plaintiffs from an order of Mr. Justice Avory in the matter of Kodak, Ltd., *v.* Lowndes came on for argument. It appeared that his Lordship had refused to grant the appellants an interim injunction in a matter in which both parties applied to restrain the other. The action was in respect to the possession of premises and land known as Cambridge House Farm, Wealdstone, near Harrow. After discussion, the parties agreed to the following terms:

"The appeal be dismissed, the plaintiffs to have the benefit of the occupation of the buildings which they had erected on the land in dispute; if the case should be decided in the defendants' favour the plaintiffs should pay such occupation rent as should be assessed by a Judge in Chambers; the plaintiffs further undertaking to remove the fencing by which they had enclosed certain land or a sufficient part thereof."

Defendant was given costs in the appeal.

Sale of Food and Drugs Acts.

Oil of Almonds.

At the Burnley Police Court on October 16, the case of Mr. Nehemiah Tomlinson, chemist, Burnley, in regard to oil of almonds (*C. & D.*, October 5, index folio 536)

was again called. The Town Clerk (who prosecuted) now asked that the case be withdrawn on payment of costs, in order that a fresh summons in the words of the information should be issued. Mr. Riley, for the defendant, said he was acting on instructions for other people, and he could not consent because he did not know how it would affect his position, and he did not think the Town Clerk's application fair. The Magistrate's clerk then amended the summons, inserting in the body of it, "to the prejudice of the purchaser," and at the close, "the Sale of Food and Drugs Act, 1875, Section 6." The Bench agreed to the amendment of the summons and adjourned the hearing for three weeks.

Jesse Tomlinson, brother of the previous defendant, was similarly summoned. Mr. D. Smith appeared for the defendant. Here there was a similar omission from the summons, and the Bench agreed to amend it and adjourn the case for three weeks.

Shops Act, 1912.

Chemists Prosecuted.

At Stratford-on-Avon Borough Police Court, before Mr. G. Boyden (Chairman) and Dr. J. J. Nason, on October 10, Frederic Downing Spencer, chemist and druggist, High Street, Stratford-on-Avon, was summoned for unlawfully keeping open his shop for the serving of customers after one o'clock on the afternoon of Thursday, October 3, that being the afternoon of the week on which he had decided to close his shop for the serving of customers. Mr. R. Lunn (Town Clerk) prosecuted, and Mr. S. C. Warden (instructed by Messrs. Neve, Beck & Kirby, solicitors to the Chemists' Defence Association, Ltd.) defended.

Mr. Lunn, in opening, said this was a test case pure and simple.

George Holton, engine-driver in the employ of the Corporation, proved the purchase of a tin of tooth-powder and a tablet of toilet-soap. The assistant supplied them, nothing being said about either of the articles being a medicine or for what purpose they were required.

Inspector Albert Ainley deposed to going into the shop after receiving the articles from Holton. There was no notice in the place fixing what the early-closing day was to be, but later in the afternoon he saw exhibited the usual notice stating that the shop was closed except for the sale of medicines and medical and surgical appliances.

Proof of witness's appointment having been given on the suggestion of Mr. Warden, he was cross-examined. Witness admitted it to be the fact that the Town Council Committee decided to take action owing to a letter received from the Home Office stating that Mr. J. G. Dance had complained that one of the chemists of the town was not complying with the Shops Act. He denied that at the meeting of the committee he reported what goods Mr. Spencer was selling which were not medicines or medical or surgical appliances, but admitted stating that Mr. Spencer was contravening the Act. Soon after the Act came into force he saw Mr. Spencer on the matter, and told him he would have to close his shop one half-day a week for the sale of certain goods.

Mr. Warden: Did you not point out that in your opinion he would have to close his door, and that if the public came to the shop they would have to ring?—Witness: He asked me the question, but I did not definitely say what you are saying. I said that according to the Act the things not to be sold should not be exposed. Mr. Spencer told me candidly he did not agree with my interpretation of the Act. Mr. Spencer also sells photographic materials, but he had obtained an exemption in respect of these.

He was entitled to have his shop open for the sale of photographic goods, and I put it to you he was entitled to have it open for the sale of chemists' goods?—Yes, so far as he complies with the Act.

And you say he has infringed the Act because a tablet of soap and a box of tooth-powder have been sold?—I do, certainly.

It was open to you to select any goods you liked?—Yes.

And you decided on soap and tooth-powder. Did you select these articles because they were on the border-line, or because you thought they were flagrant infringements?—Because I thought they were articles which should be purchased.

Mr. Warden: Did you select them because you wanted a decision on the point?—No; I thought they were likely articles.

Are you aware that the ingredients of this tooth-powder are precipitated chalk, carbolic acid, oil of wintergreen, oil of cinnamon, eosin, strong solution of ammonia, and powdered orris, and that the whole of these are drugs?—I don't think they are all drugs.

It says on the tin that this powder renders the teeth pearly white, prevents decay, gives a delicious freshness to the mouth, and strengthens the gums. (Laughter.)—I do not agree that it is an article of a medicinal nature.

And the coal-tar soap "softens and preserves the complexion." (Laughter.) Mr. Warden enumerated the ingredients of the soap, but witness would not admit this article was of a medicinal nature.

Re-examined, witness said he gave instructions for these articles to be asked for because he thought they were the ones likely to be supplied to the public. He did not pick out Mr. Spencer's shop alone, but told the man to go to each chemist.

Dr. Arthur Thomson, medical officer of health for Stratford-on-Avon, stated that in his opinion the articles purchased were not medicines, nor medical or surgical appliances. They were cosmetics. In cross-examination, he agreed that several of the ingredients in the powder are drugs mentioned in the British Pharmacopœia, but the word "drugs" does not occur in the Shops Act. Some of the ingredients of the powder were undoubtedly medicinal, but in the form of tooth-powder they could not be administered as a medicine.

Mr. Warden: A tooth-brush is a medical appliance?—Witness: It is a cosmetic appliance.

You recommend tooth-powder sometimes. Is not that on account of its medicinal properties?—I can't admit that, it is too far-fetched. If a man went to a chemist with an order from a dentist or doctor, the chemist would be justified in serving him during prohibited hours.

Then you draw a distinction between selling a powder made up from prescription and selling one that happens to be in stock?—Yes.

Have you recommended patients to use certain soap which contains medicinal properties?—The soap has an antiseptic action on the skin. I agree that both articles contain drugs, but a mixture of drugs does not make them medicines.

Mr. Lunn: Water also has action on the skin, and you would not call that a medicine.

For the Defence

Dr. Earnshaw Hewer said he was of opinion that the tooth-powder came under the heading of medicine. The ingredients were within the scope of drugs, and four of the seven ingredients are mentioned in the British Pharmacopœia. Occasionally he recommended patients to purchase a particular tooth-powder, and he considered that the powder sold in this instance was just as much a medicine as any powder that might be prescribed. Respecting the coal-tar soap, he agreed that three of the five ingredients are enumerated in the Pharmacopœia, and the tablet undoubtedly possessed antiseptic properties. At times he recommended people to use certain soaps which are of medicinal value, and he contended that the coal-tar soap in question came under the heading of medicine. In cross-examination, witness said he had prescribed this particular soap. With regard to the lists of medicines in the British Pharmacopœia, he added that it is laid down by statute that the General Medical Council "shall cause to be published a book containing a list of medicines and compounds."

Dr. Donald S. Murray was also of opinion that the tooth-powder was a medicine and the soap of a medicinal nature, and believed that both articles came within the list of goods that could be sold during closing hours. In cross-examination, he said that vinegar is a medicine also.

The defendant also gave evidence. He said that when the Act first came into force the inspector saw him, and told him that he must pull his blinds down and close his doors on the half-day, and if anybody wanted anything they would have to ring the bell to obtain it. Mr. Spencer pointed out that that was not his reading of the Act, and it would only be necessary to do so if two-thirds of the chemists of the town were successful in an

application for a strict closing order. In July he obtained an exemption for photographic materials, and he contended that it was not incumbent upon him to close his shop at all. Both the tooth-powder and the soap undoubtedly had antiseptic properties, and a large proportion of their ingredients were incorporated in the British Pharmacopœia. He agreed that if the application for a total closing order had been successful he would have had to pull his blinds down, close his door, and sell only articles that were required in cases of illness or to make up doctors' and dentists' prescriptions.

Cross-examined: Would you supply, say, a Thermos flask on a Thursday afternoon?—Defendant: If it were required to keep patients' milk or babies' food warm I should supply it.

Then you would inquire for what it was required?—Certainly.

Mr. Lunn retorted that that was not done in the case of the soap and tooth-powder.

Mr. Warden inquired whether the Bench considered he had a case to answer.

The Chairman: We are of opinion that there is.

Mr. Warden said it was admitted by the prosecution that the defendant was entitled to keep open his shop for the sale of medicines and photographic goods. He was summoned not for keeping the shop open and selling certain goods which it was contended could not be supplied, but for keeping open the shop "for the serving of customers on the afternoon in the week on which the defendant had decided to close his shop." He believed he was entitled to keep the shop open, and, that being so, he contended that the summons on the face of it disclosed no offence. He asked for a ruling.

The Magistrates having decided against him, Mr. Warden urged that Mr. Spencer was not bound to close his establishment at all, and the prosecution had been unable to prove anything to the contrary.

The Bench also decided against him on this point, and Mr. Warden said that, assuming the shop should be closed, it was laid down by the Act that unless and until any order were made by the local authority fixing a weekly half-holiday the proprietor or occupier of the establishment could select the half-day on which he wished to close, and announce that fact in a notice posted in the shop. In this case no notice had been posted specifying the day that had been selected for closing, and he contended there was no evidence to show that Mr. Spencer had selected Thursday.

Having received an adverse decision on this point also, Mr. Warden observed that his client had the support of the Pharmaceutical Society and the Chemists' Defence Association. He contended that the articles in question were included in "medicines and medical and surgical appliances." No closing order had been granted by the local authority so far as a chemist's business was concerned, and he contended there had been no infringement of the Act.

The Magistrates retired, and, on returning, the Chairman said that after hearing the evidence, particularly the expert portion of it, they could scarcely proceed to a conviction, and the case, therefore, would be dismissed. They thought, however, that the scope of the Act was very badly defined.

Mr. Warden applied for his costs in the case.

The Chairman: We consider it a case that should have been brought forward, and you must not expect more than our sympathy.

Other Cases.

As briefly reported in our issue of October 5, William Bland Botham, Ph.C., 147 Holdenhurst Road, Bournemouth, was summoned on October 10 for not closing his shop not later than 1 P.M. on the afternoon of one weekday in the week which ended September 17. The defendant pleaded "Not guilty," and was defended by Mr. E. H. Bone (instructed by Messrs. Neve, Beck & Kirby, Lime Street, London, solicitors to the Chemists' Defence Association).

The Town Clerk (Mr. H. Ashling), who prosecuted, said no closing order had been made in Bournemouth. In July the inspector under the Shops Act saw a notice at Mr. Botham's shop intimating that Wednesday was the closing day agreed on, and that the shop was closed for that day except for the sale of medicines and medical and surgical appliances. On August 21 there was no such notice, and Mr. Botham might have been proceeded against for that offence, but it was thought unnecessary to take out more than one information. At seven o'clock on the evening of Wednesday, September 11, the inspector sent a Mrs. Scott into the shop to purchase a tablet of soap, for which she paid 2*d.*, and a nail-brush, for which she paid 3½*d.* The prosecution contended that those articles do not come under the category of exempted goods.

The Inspector (Mr. C. T. Newlyn), in evidence, corroborated this statement. He had warned Mr. Botham on August 21 in regard to selling photographic apparatus.

For the defence, Mr. Bone contended the information should be dismissed, because the opening of the shop was permissible to the defendant. If the Bench were going to hold that the soap and the brush did not come within the category of exemptions, then the defendant could be summoned for a breach of the Home Secretary's regulations in that respect, but not for opening his shop. It was arguing backwards to say that because he sold those articles his shop was open and that he therefore committed an offence. They might equally say because he sold medicines his shop was open. His other point was in regard to the interpretation of the wording in the schedule of exemptions. He suggested the words "medicines and medical and surgical appliances" were intended to refer to the business carried on, and not merely to the specified articles. The words indicated the class of goods the sale of which was exempted, and this covered articles incidental to the chemist's business. It was not suggested that Mr. Botham kept anything in the nature of a store. The business, as announced over the shop, was that of a pharmaceutical and dispensing chemist, and nothing else. He sold medicines and those articles that had medicinal properties in them. Was not soap connected with medicines? There were medicated soaps, and soaps used for particular complaints.

The Town Clerk: Is a nail-brush medicine?

Mr. Bone asked the Court to remember that the Government were just now giving children instruction in the use of nail and tooth brushes for the benefit of their health.

The Town Clerk: Then it is a surgical appliance.

Mr. Bone said it could never have been intended to leave to the Magistrate's decision what were medicines and what were not. There were prescribed medicines and all kinds of medical preparations. The Bench would be driven into an awkward position unless they placed on the words the wide interpretation he suggested, and they would be compelled to make very nice distinctions. He asked for the dismissal of the summons on a third point. Defendant was prosecuted for not closing on one half-day. There was no proof that he did not close. The evidence related only to the Wednesday, but there were five other weekdays.

The Town Clerk said the notice previously shown related to the Wednesday, and the day selected could not be changed within three months.

The Inspector, re-called, said Wednesday was the day chosen by the Pharmaceutical Association of Bournemouth, to which nearly all the chemists belonged.

The Magistrates, after considering in private, said they had decided to convict. The articles sold did not, in their opinion, come within the articles allowed to be sold. There would be a fine of 1*l.*, including costs. Leave to appeal was given.

A similar summons was heard against Mr. Simon Chellew Moyle, chemist, 7 Westbourne Arcade, Bournemouth.—The Town Clerk said in this instance there was a notice stating the shop was closed except for the sale of medicines and medical and surgical appliances.—The Inspector deposed to sending a woman into the shop, and she purchased a tablet of oatmeal soap at 2*d.*—The defendant said the soap was a skin soap, and he had no idea he was violating the law by selling it. He understood he could sell anything belonging to a chemist's

business.—The Chairman said the Bench would take into consideration that defendant had not been previously warned, but he was equally guilty. He ought to know what he could sell and what he could not sell. Defendant was fined 10*s.*, including costs.

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

Mitchell & Sons, Wine Merchants, Ltd. (P.C.).—Capital 15,000*l.*, in 1*l.* shares. The first directors are R. Mitchell and H. Mitchell. R.O., 21 Kildare Street, Dublin.

South Bank Chemical Co., Ltd. (P.C.).—Capital 10,000*l.*, in 1*l.* shares. Objects: To carry on the business of ammonia and tar distillers and manufacturers, chemical manufacturers, etc. The first subscribers are J. Heptonstall and H. B. Old.

Patala, Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in tobacco, cigars, cigarettes, snuff, perfumes, soap, etc. The subscribers are L. A. Start, J. C. Perkins, Mrs. M. Start, and H. H. Speight. Secretary, L. Lee, 30 Frederick Street, Loughborough.

Slack's Chemists' System, Ltd. (P.C.).—Capital 700*l.*, in 5*l.* shares. Objects: To carry on the business indicated by the title, and to take over, as from September 30, and extend the business of B. Slack, business expert. The subscribers are B. Slack and Olive Slack, typist. B. Slack is the first director. R.O., 9 King Street, Wolverhampton.

E. & S. Watson, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, opticians, wine and spirit merchants, patent-medicine vendors and proprietors, etc. The subscribers and first directors are E. Watson, Mrs. S. L. I. Watson, and J. D. Fergusson, chemist and druggist. R.O., 2 High Street, Cleator Moor, Cumberland.

Oldbury S. C. Syndicate, Ltd. (P.C.).—Capital 10,034*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in cyanides and cyanogen products, etc., and to adopt an agreement with the British Cyanides Co., Ltd. The subscribers are British Cyanides Co., Ltd., A. G. Salamon, and K. M. Chance. The first directors are A. M. Chance, K. M. Chance, C. F. Rowsell, and A. G. Salamon. R.O., 49 Queen Victoria Street, E.C.

Howard Lloyd & Co., Ltd. (P.C.).—Capital 5,000*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists and druggists, manufacturers of and dealers in medical and surgical implements and appliances, etc. The first subscribers and directors (each with 100 shares) are W. H. Lloyd, 1 Cross Road, Leicester, manufacturing chemist; E. F. Lloyd, 21 Holbrook Road, Leicester, manufacturing chemist; and J. T. Basford, Briar Hey, The Roundhill, Leicester, traveller. R.O., Wood Hill, North Evington, Leics.

Sandow's Health Foods, Ltd. (P.C.).—Capital 50,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in food, beverages, culinary preparations and condiments, bakers, millers, cultivators, winners, buyers, and preparers for market of and dealers in every kind of vegetable, mineral, or other produce of the soil; to establish in the U.K. or abroad depôts for the sale of bread, biscuits, and other farinaceous goods and products, cocoa, chocolate, tea, coffee, milk, aërated and mineral waters, cordials, tobacco, cigars, cigarettes, confectionery, cakes, buns, potted meats, table delicacies, and other provisions, goods, or drinks, etc. The first directors are Eugen Sandow, James H. Edwards, John Bazley-White, Thos. C. Bench, and Robert Reichmann.

Company News.

Benger's Food, Ltd.—The directors have declared an interim dividend of 9*d.* per share for the half-year to September 30.

Removals from Register.—By notice gazetted on September 27 the following joint-stock companies have been struck off the Register at Somerset House: Impregnated Toothbrush Co., Ltd.; K.C. Soap and Polish Co. (1909), Ltd.; National Radium Trust, Ltd.; National Soap Co., Ltd.; Radium Specialities, Ltd.; Vitæcarnis, Ltd.; Vivo Vibrator Co., Ltd.

A. & F. Pears, Ltd.—The directors, after adding a further sum of 826*l.* to the depreciation and leasehold redemption fund, also 11,500*l.* to the reserve account, have declared a dividend for the half-year ended June 30, 1912, on the ordinary shares at the rate of 12 per cent. per annum, making, with the interim dividend, 10 per cent. for the year. The amount carried forward is 31,125*l.* The report of the directors shows that the net profit for the year which ended June 30 was 63,626*l.* 7*s.*, making, with the 32,998*l.* 16*s.* 1*d.* carried forward from last year, after the above depreciation allowance, 96,625*l.* 3*s.* 1*d.* available for dividend. 28,800*l.* has already been paid in dividends, and 6,000*l.* is now appropriated for the 6 per cent. dividend on the cumulative preference shares for the second half of the year, and 19,200*l.*—being 12 per cent.—on the ordinaries, making 10 per cent. for the year. The profit-and-loss account shows a balance on trading account of 172,313*l.* 17*s.* 8*d.* and interest on investments 6,289*l.* 15*s.* 1*d.*, making a total of 178,603*l.* 12*s.* 9*d.* The expenditure on salaries, rent, rates, taxes, fire insurance, foreign agencies, repairs and renewals, general expenses, advertising, fees, etc., was 114,151*l.* 1*s.* 3*d.* The report is signed by Mr. Thomas J. Barratt, as chairman and managing director; Sir Thomas R. Dewar, vice-chairman; and Mr. H. A. Manfield, secretary. Other directors are Mr. A. T. Hollingsworth, Sir Joseph Beecham, and Mr. E. H. Byas. Mr. Hollingsworth is the retiring director, but is eligible and offers himself for re-election. The directors express their satisfaction with the balance-sheet, and report that the demand for Pears' soap has materially increased, while they have the gratification of recommending the same dividends which have been regularly distributed for nearly twenty years.

BANKRUPTCY REPORTS.

Re Leonard William Stanton, London, Chemist's Assistant.—This debtor applied in the Sheffield County Court on October 10 for his discharge from bankruptcy. At the time of his failure, sixteen years ago, he was a chemist's assistant at Denaby Main, near Rotherham. His liabilities were 575*l.*, and his assets realised nothing. He told the Court that it had been one of his ambitions to make an offer to his creditors, but had not been able to find means to do so. In reply to Judge Benson, he stated that he is still an assistant, and married, at 2*l.* 15*s.* a week. He had been two years in hospital. The discharge was granted subject to two years' suspension.

Re Richard, Abenheim & Co., Hopetoun House, Lloyds Avenue, E.C., and Yokohama, Japan, Import and Export Merchants.—The affairs of this firm came before Mr Registrar Linklater at the London Bankruptcy Court on October 16, in relation to the public examination of the partners Richard, Frederick Berthold, and Edward S. Abenheim. A statement of affairs has been lodged showing total liabilities 127,367*l.*, of which 88,210*l.* is expected to rank against assets valued at 52,869*l.*, including 38,513*l.* in Japan. The hearing was adjourned for amendment of the statement of affairs, the Official Receiver saying that it is a very heavy and complicated case.

Re William Pamplen Harris, Bere Alston, Devon.—A meeting of the creditors of this debtor was held at the office of the Official Receiver at Plymouth on October 10. Debtor's liabilities in respect of forty-one unsecured creditors amount to 299*l.* 13*s.* 7*d.*, and his assets are estimated to produce 56*l.* 0*s.* 10*d.*, leaving a deficiency of 243*l.* 12*s.* 9*d.* The Official Receiver's observations were that debtor was a chemist at Bere Alston. Owing to want of capital and heavy expenses, his profits had been small, and to these causes he attributed insolvency. The household furniture, of small value, is his wife's property. The assets include machinery value 50*l.* Debtor's public examination is fixed for November 8.

GAZETTE.

Partnership Dissolved.

Longinotto, M. J., and de Marchot Hill, W., Russell Square, London, W.C., and Gerrard Street, Soho, London, W.C., surgeons and general medical practitioners, under the style of Longinotto & Hill.

The Bankruptcy Acts, 1883 and 1890.

Adjudication.

Migge, W. (trading as the Leeiform Co.), Eastcheap, proprietary-medicine vendor.

Is it Liable to Medicine Stamp-duty? This question is easy to answer if you have at your desk one of the new *C. & D.* chart-cards showing grounds of liability and exemption. Post free for four penny stamps from the *C. & D.* Office, 42 Cannon Street, London, E.C.

BIRTHS.

Horrod.—At 30 Lynmouth Road, East Finchley, London, N., on September 29, the wife of Geo. W. T. Horrod, F.C.S., chemist and druggist (of Messrs. Fassett & Johnson), of a son.

Opie.—At Sydenham House, Pendarves Road, Penzance, on October 14, the wife of Arthur T. Opie, chemist and druggist, of a daughter.

MARRIAGES.

Hendry—Campbell.—At Durban, Natal, by the Rev. Robert Russell, M.A., on October 14, Stuart Mill Hendry, chemist and druggist, Vereeniging, Transvaal, to Jessie Newton, second daughter of the late Mr. William Campbell, farmer, Blairton, Balmedie, Aberdeenshire.

Kelly—Harrington.—At St. Patrick's Cathedral, Cork, on October 9, by the Rev. James O'Mahoney, assisted by the Rev. Francis Maher, Ambrose Kelly, second son of Mr. T. A. Kelly, Mountjoy Square, Dublin, to Isabel, elder daughter of Mr. W. B. Harrington, chemist and druggist, 30 Patrick Street, Cork.

McConnell—Lennon.—At St. Michael's Church, Kingstown, co. Dublin, on October 6, by the Rev. Father Sladen, Robert John McConnell, son of Mr. John McConnell, Ph.C., Dublin, to Frances, eldest daughter of Mr. James Lennon, Kingstown.

DEATHS.

Baigent.—At Darlington, recently, Mr. T. G. Baigent, chemist and druggist. Mr. Baigent carried on business as a chemist for a long period in the Horsemarket and at High Row, Darlington, retiring about fifteen years ago. He took much interest in public matters and had served on the Board of Guardians, the School Board, and the old Highway Board. He was also warden of St. Cuthbert's Church, Darlington, and of the parish church at Hurworth-on-Tees.

Barron.—At 9 St. Peter's Mount, Bramley, Leeds, on October 11, Mr. John Lancelot Barron, chemist and druggist.

Clapham.—At Cross Hills, near Keighley, on October 9, Mr. William Clapham, formerly for many years in business there as a chemist and druggist, aged seventy.

Embleton.—On October 12, Mr. Bradley Embleton, chemist and druggist, 53 Roman Road, Bow, London, E. Mr. Embleton, who was also sub-postmaster for Bethnal Green, was at business as usual last Friday, but was found dead in bed on Saturday morning. He had suffered from asthma and bronchitis, and at the inquest, necessitated by his sudden death, the Coroner remarked that the dense fog of Friday night had no doubt affected him. The jury found that he died from natural causes. Mr. Embleton passed the Modified examination in 1869.

Epps.—At Wellgarth Road, Hampstead, on October 13, after a long illness, Dr. Washington Epps, aged sixty-four. Dr. Epps was one of the leading homœopathic physicians in this country, and had been on the staff of the London Homœopathic Hospital for thirty-eight years. He studied at University College, London, and became M.R.C.S. England in 1871 and L.R.C.P. Edinburgh in the same year. He then commenced practice in London, and until his illness had consulting rooms at 55 Queen Anne Street, W. He made various contributions to homœopathic literature, and was a past-President of the British Homœopathic Society, of which he was also a Fellow. He was a brother-in-law of Sir L. Alma Tadema, and was the original of that distinguished artist's portrait "My Doctor."

Garrett.—At 101 Sydney Place, Bath, on October 13, Mr. Henry Newson Garrett, proprietor of the Midford Fullers'-earth Works, aged seventy-one. Mr. Garrett was a member of the Bath Town Council for six years.

Haslett.—At Belgravia, Belfast, the residence of her mother, on October 10, Edith Kathleen, daughter of the late Mr. John W. Haslett.

Simpson.—At Aberdeen, on October 13, Mr. James Donald Mackenzie Simpson, chemist and druggist, aged twenty-five.

Stannard.—At York House, Hurlingham, S.W., on October 3, after a brief illness, Mr. Arthur Stannard, managing director of J. S. W. Preparations, Ltd., aged fifty-eight. Mr. Stannard would have been fifty-nine next month. He was by profession a mining engineer, but had the misfortune to lose part of a leg, and this disability prevented him from following what promised to be an exceedingly successful professional career. When the late Mrs. Stannard commenced the manufacture of hair and toilet preparations, and it developed into a business, Mr. Stannard took charge of the commercial side, and it was largely owing to his keen business acumen that the company prospered so well. He was a man of charming personality, and much sympathy is felt for the Misses Stannard, who have been bereaved of both of their parents within a year.

WILLS PROVEN.

Mr. William John Grace Moran, 7 High Street West, Glossop, chemist and druggist, who died on August 31, left estate of the gross value of 624*l.* 15*s.* 9*d.*, of which 388*l.* 4*s.* is net personalty.

Mr. William Herbert, The Pharmacy, 355 Staines Road, The Heath, Hounslow, chemist and druggist, who died on August 9, left estate of the gross value of 162*l.* 5*s.*, and probate of his will has been granted to Mr. John Francis Hagarty, of The Pharmacy, Staines Road, The Heath, Hounslow.

Mr. Stacey Thomas Gee, 3 Inkerman Terrace, Whitehaven, retired chemist and druggist, who died on August 6, left estate of the gross value of 8,987*l.* 6*s.* 7*d.*, of which 3,289*l.* 13*s.* 8*d.* is net personalty. Probate of his will has been granted to his brothers, Mr. David Gilham Gee, 19 Carkickle, Whitehaven, retired chemist, and Mr. Edward Bell Gee, East Dulwich, solicitor, and Mr. Robert Potts, Newcastle-upon-Tyne. The testator left forty shares in the Whitehaven Bank, Ltd., upon trust for sale, and from the proceeds thereof he left 500*l.* towards the stipend of the missioner connected with the Whitehaven Town Mission, and the remainder of the proceeds to the London City Mission; and 500*l.* to the Presbyterian Church, Market Place, Whitehaven, for the augmentation of the stipend of the minister of the said church. He left 20*l.* each to the executors of his will; his residence, 3 Inkerman Terrace, Whitehaven, upon trust for his wife for life; and the residue of his estate he left upon trust for his wife during widowhood, with remainder upon trust for his children or their issue in equal shares.

Mr. Reginald Howell, F.C.S., Clive House, Esher, Surrey, joint managing director of Messrs. Stevenson & Howell, Ltd., manufacturing chemists, 95 Southwark Street, London, S.E., who died on August 3, left estate of the gross value of 151,949*l.* 12*s.* 6*d.*, of which the net personalty has been sworn at 141,915*l.* 10*s.* Probate has been granted to the Public Trustee; his brother, Mr. Bulmer Howell, solicitor, 47 Watling Street, E.C.; and his nephew, Mr Charles Arthur Wrench, 95A Southwark Street, S.E. The testator left to his wife, Mrs. Mary Nona Howell, 1,000*l.*, his household and personal effects, consumable stores, and motor-cars absolutely, and he left to her the use for life, or for so long as she should wish to occupy it, his residence, Clive House, Esher. He left his 100*l.* debenture (carrying membership) of the Worplesden Golf Club to his son Miles; 750*l.* each to Anna Marguerite Addinsell, Owen Bulmer Howell, Geoffrey Bulmer Howell, and Norman Bulmer Howell, children of his brother Bulmer; 200*l.* each to his brother Bulmer Howell and his nephew Charles Arthur Wrench, as executors; and 100*l.* to his gardener, H. Dalley. He confirmed the provisions of the settlements made on his marriages, and he left the residue of his property during the life of his wife upon trust to pay four-fifths of the income to his wife and one-fifth of the income to his daughter Phyllis Mary Howell. On the decease of his wife, he left the residue of his property as to one-fourth (less three-quarters of the value at his death of 1,000 preference shares in Stevenson & Howell, Ltd., settled on his said daughter) upon trust for his said daughter and her issue, and the remaining three-fourths, together with the amount deducted from the other one-fourth, upon trust in equal shares for the children of his second marriage.

TRADE NOTES.

The only address of Papier Poudré, Ltd., proprietors and manufacturers of Papier Poudré and Poppœa preparations, is 23 Somerset Street, London, W. Buyers are requested to make a note of this.

Lactagol.—Messrs. E. A. Pearson & Co., 49 Watling Street, London, manufacturers of this galactogogue, offer to send one tin free to every chemist, so that they may sell or present it to a mother. For particulars see their advertisement.

Sequarine.—Messrs. O. Richter & Co., 59-61 New Oxford Street, London, W., publish in the advertisement section of this issue correspondence which they had with the British Medical Association respecting Sequarine. This demonstrates forcibly the singularly unfair methods followed in "Secret Remedies" which we referred to last July, and which opinion is endorsed by "Truth."

It will be observed from Company News that a private limited company has been formed, which has bought the machinery, books, furniture, stock, &c., relating to the pill, tablet, and capsules department of the late firm of T. Howard Lloyd & Co., and it will be carried on under the title of Howard Lloyd & Co., Ltd., with Mr. W. H. Lloyd as managing director.

Digitalis Glucosides.—The present interest in this subject has induced Mr. E. Merck, Darmstadt (London office, 16 Jewry Street, E.C.), to reprint from Merck's "Annual" for 1911 the section dealing with digitalis glucosides and allied drugs. This forms a pamphlet of about a hundred pages, and in it the subject is reviewed under the following headings: (1) General and Historical; (2) Physiological and Pharmacological; (3) Therapeutical. The article deals not only with digitalis, but with all known drugs which have or are reputed to have cardiac action.

Veterinary Catalogue.—Messrs. S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., have published a new list of veterinary instruments suitable for stock-breeders and farmers. The list is intended for retail chemists, and the prices named are subject to trade discounts. It is not submitted as representing the firm's stock of veterinary instruments, but as a selection of those in general use among farmers and stock-breeders for which chemists in agricultural districts are asked. The list includes an excellent selection of veterinary appliances and cannot fail to be useful to country chemists.

Fulford Window-shows.—Messrs. C. E. Fulford, Ltd., Greek Street, Leeds, are distributing to chemists a booklet, illustrated in colour, regarding window-shows of Zam-Buk, bile beans, Zam-Buk soap, Fulford powder, and Peps. This is the sixth annual issue of the window-show scheme, the payment for the use of the window taking the form of a discount, which varies according to the amount of goods ordered. The cookery-book issued as an advertisement for bile beans is still obtainable, and is as popular as ever. A showcard for Zam-Buk soap with a pair of hands covered in lather is one of the new ideas in the window-show booklet.

Winter Lines.—Attractive tablets for winter trade are advertised in this issue by Messrs. Wigglesworth, Bolton. These are "Scotch Pines," chest and lung tablets, pine tree, true pines, Norwegian pines, pine-fume, Swiss pines, and Diamond pine tar. The first two lines are specially attractive, and the helpful methods which the makers have of assisting the sale of their tablets should make them favourites in many districts. For the "Scotch Pines" a specially painted window-poster is supplied, the poster being made in the proper size for each window. The magnetic effect on the public of a window poster and display of tablets has been proved in the case of other lines. If the ball is kept rolling by seasonal goods, there is no reason why the tablet habit should not be largely developed and maintained throughout the seasons.

Cream Emulsion of Cod-liver Oil.—Messrs. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, have recently added to their emulsifying plant a new machine which makes the emulsion as a permanent cream doubly certain. The preparation is an excellent and palatable cream, put up in various styles, the latest being the "Fleet" brand, in which the carton shows a fisherman with a large cod in his hand standing in front of an oval vignette scene of a fishing fleet. This carton is beautifully executed in several colours, and Messrs. Ayrton, Saunders & Co. supply a large dummy carton for exhibition in the pharmacy. This measures 20 in. high by 10 in. wide, and forms a very effective object in the pharmacy. The chemist's own name and address can be printed on the cartons, and one of the dummies is given with a first order of three dozen emulsion. Further particulars can be obtained from the company on application.

The Strand Mantle ("Robinlyte") is a new style of incandescent mantle manufactured in accordance with Mr. J. I. Robin's patents, which is a good acquisition to gas-lighting. The mantle is not made from gauze, like ordinary mantles, but from strands of thread warped to form a tube of wavy strands, which is fixed to form an inverted cap. This is soft, flexible, and can be handled with impunity; we have rubbed one between the hands without breaking a single strand; in fact, it feels exactly like a hank of silk. So far as lighting is concerned the "Robinlyte" mantle presents to the ignited gas a surface which gives the maximum of luminescence; the texture in comparison with a gauze mantle being like that of a Turkish towel to a piece of cheap cotton. It retains its flexibility during luminescence, thus adapting itself without breaking to sudden alterations of pressure, and it has other advantages. The manufacturers' price is 3*s.* a dozen, and those who desire further information in regard to it should write to Robinlyte, Ltd., 121 Bollo Bridge Road, Acton, London, W.

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

Mr. T. G. Hughes is shortly opening a pharmacy at Ebenezer, North Wales.

John L. Smith, Ltd., are opening another branch-pharmacy in Stretford Road, Manchester, a few doors from their present shop.

The business carried on by Starkey & Son at 39 Cursitor Street, Chancery Lane, London, W.C., as the Rolls Pharmacy has been closed.

Mr. W. L. Fewster, chemist and druggist, of Dewsbury, has removed his business from Westborough to more convenient premises in Slaithwaite Road, Thornhill Lees.

Under distraint for rent the goodwill of the business of Allan & Co., chemists, 80 Holt Road, Kensington, Liverpool, together with the fixtures, fittings, and stock, are advertised to be offered at auction on October 21.

Mr. J. P. Thomas, Great Darkgate Street, Aberystwyth, has disposed of his business to Mr. Bertie Taylor Lloyd, chemist, 3 Bridge Street, Aberystwyth. Mr. Thomas, who has bought two holdings in Cwmrheidol, intends to devote his time to farming his lands.

Boots, Ltd., opened their large new premises in High Street, Gillingham, Kent, on October 11. The company have also taken over Kinmel House, Conway Road, Colwyn Bay. The plans for the necessary alterations were approved last week by the local authority.

The Old-established Business lately carried on by Mr. C. L. Lever, chemist and druggist, at 413 Oxford Street, Manchester, has been sold to Mr. V. Cromack, chemist and druggist, of Bolton. The negotiations on behalf of both parties were conducted by Messrs. John Quilliam & Co., Ltd., Victoria Bridge, Manchester.

Abyssinian Beeswax exported from Gambela passes through the Sudan in transit to Port Sudan, and last year the exports were 197,888 kilos. (15,365*l.*E.), against 122,843 kilos. (9,568*l.*E.) in 1910. Prices at Gore are about 24*s.* per farasula of 37½ lb., in which the dirt averages 20 per cent. A ton can be bought and delivered in London at about 112*l.* The increase in exports is due to higher prices offered to Gallas, who collect in the forests. The through freight from Gambela to Port Sudan is 6*l.* 16*s.* 6*d.* per ton.

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated and must not be in the nature of advertisements.

Mr. D. Lloyd Jones, Hon. Secretary of the Newport (Mon.) Pharmacists' Association, who has been ill, has greatly improved in health.

Mr. Charles Lawrence has joined the representatives' staff of Messrs. Prichard & Constance (Wholesale), Ltd. He will cover the Southern Counties.

Mr. W. L. Towers, chemist and druggist, 10 Railway Street, Chatham, was installed W.M. of the Montague Guest Lodge, No. 1900, on October 9.

Mr. E. C. Rennell, of Messrs. Teed & Co., chemists, New Plymouth, N.Z., who has been in this country since June, returns to New Zealand on October 18 by s.s. *Mantua*.

Mr. A. Barton Kent (Messrs. G. B. Kent & Sons, Ltd.) has been elected a member of the Council of the London Chamber of Commerce, in the place of the late Sir Joseph Dimsdale.

Mr. Hermann Finzelberg, formerly director of Schering's Chemical Works, Berlin, on the occasion of his seventieth birthday, has been elected an honorary member of the Deutsche Pharmazeutische Gesellschaft. He was President of the Gesellschaft for three years, and his energy and influence steered it safely over the critical time of its existence. On the occasion of his birthday Professor H. Thoms (President), Dr. Strunk, Dr. Goldmann, Dr. Wolff, and Mr. Schering called at his house to congratulate him. A large circle of friends and relatives were entertained to luncheon, and the two daughters of the host, Frau Kommerzienrat Görz and Frau Professor Wislicenus, helped to entertain the guests. The latter lady is a well-known sculptor, says the "Pharmaceutische Zeitung," one of her works being the warrior monument in Putzig which was lately unveiled. She is also taking part in the competition for the Mohr monument to be erected in Coblenz.

Dr. Theodor Peckolt, whose death we reported last week, was born in Pechern, Niederlausitz, in July 1822, and was an apprentice and assistant in pharmacy from 1837 to 1841, when he went to the University of Rostock, but after the first term had to give up his pharmaceutical studies through want of means, and went as assistant to Hamburg, where he made the acquaintance of Professor Karl v. Martius, the well-known botanist and authority on Brazilian flora, whose collection of cinchona barks is now in the North British Branch of the Pharmaceutical Society. It was at his instigation that Peckolt decided to try his luck in Brazil, so he sailed in September 1847 to Rio de Janeiro. For about six months he underwent the greatest hardships, until he obtained a post as assistant to a Portuguese pharmacist, where he remained for seven months. The savings which he made during that time enabled him to equip himself partly for his long-desired journey of discovery into the Brazilian tropics. For two years he wandered through the forests of the Provinces of Rio de Janeiro, Minas, and Espirito Santo, making extensive additions to his natural-history collection, and eagerly helped by the settlers, who often made use of his skill in healing, repaying it by their hospitality. He stayed for several months among the Indian tribe Na-nanouc, and returned to Rio de Janeiro in May 1850. In July 1851 he passed the Pharmacy examination, and a few months later he bought a pharmacy in the district of Cantagallo, where he married in 1854 the daughter of the clergyman of the German colony. For seventeen years Dr. Peckolt remained in Cantagallo, occupied with professional and scientific work. With the collaboration of his son, Gustav Peckolt, he published in book-form, in the Portuguese language, two large works on Brazilian medicinal, nutritious, and useful plants. The attention of the Emperor Dom Pedro having been drawn to him by his scientific renown, he was called to the Brazilian Court as royal apothecary in 1867, where he remained until his death.

The Shops Act, 1912.

The following are brief particulars of recent local arrangements :

Approved Orders.—Orders under Section 4 for the weekly half-holiday in Bootle, Burnley, Denny and Dunipace, Dorchester, Harrogate, Kingston-upon-Hull, Larne, Stirling, and Tain have been approved by the Home Secretary, Secretary for Scotland, or Lord Lieutenant in Ireland, as the case may be, and are now lying on the table of the Houses of Parliament for the statutory period of forty days. Similarly orders under Section 5 fixing the closing hour on the several days of the week for certain shops in Kingston-upon-Hull, Larne, and Tain are also before Parliament. So far, there is nothing to show to what extent, if any, these orders refer to the shops of those who retail medicines and medical and surgical appliances.

Aberdare (Glam.).—The local urban authority notifies its intention of making a closing order under the 1912 Shops Act for chemists at the following hours: Mondays, 7.30 P.M.; Tuesdays and Wednesdays, 7 P.M.; Thursdays, 1 P.M.; Fridays, 8 P.M.; Saturdays, 11 P.M.

Barnes.—The Urban District Council is making an order for chemists to close on Wednesdays at 1 P.M., except in Castelnau, where Thursday half-day closing will be in force.

Exeter.—At a meeting of the City Council last week it was decided to affix the common seal to the weekly half-holiday order in respect of the businesses of chemists, etc.

Leyton.—The Urban Council has issued an order for half-day closing by chemists on Thursdays at 1 P.M.

Lincoln.—The City Council has decided to make an order for chemists, etc., to close at 8 P.M. on Mondays, Tuesdays, Thursdays, and Fridays; 1 P.M. on Wednesdays; and at 11 P.M. on Saturdays.

Pembroke.—The local authority has issued its draft order for the Pater Ward for closing on Wednesdays at 1 P.M.; Mondays, Tuesdays, and Thursdays, 9 P.M.; Fridays, 9.30 P.M.; and Saturdays, 10 P.M.

POISONING FATALITIES.

Twelve deaths consequent upon the taking of poison have been recorded since last week. Four were due to misadventure.

Belladonna.—A two-year-old child named Sidney Sargent died in the General Hospital, Northampton, from poisoning by a liniment containing belladonna. The bottle had been left on the sitting-room grate at the parents' home and forgotten.

Chlorodyne.—The three-year-old son of Ada Allott, of Barugh Green, near Barnsley, managed to get hold of a bottle of chlorodyne, and took part of the contents with fatal results.

Hydrochloric Acid.—Malnutrition, consequent upon taking hydrochloric acid last August, ended the life of Helen Constance Warburton (28), of Chorlton-on-Medlock.

Hypnotic.—The death of Agnes Amy D'Aeth (43), Hyde Park, London, W., was due to an overdose of an hypnotic, probably either trional or veronal.

Irritant Poison, which set up broncho-pneumonia, was responsible for the deaths of Eliza Armstrong (18), of Byker, and Gwendoline Lytton, who died in the Bolingbroke Hospital, London, S.E.

Laudanum.—Wm. Mesenger (57), blacksmith, Manchester, succumbed to laudanum-poisoning this week. Verdict: Suicide while insane.

Lead.—At the inquest on Clara Elizabeth Hailey (23), the wife of a Peckham gasfitter, it was stated that she had been taking some pills which she made herself from an old prescription. Her mother-in-law said that at deceased's request she purchased a pennyworth of diachylon. The jury returned a verdict of death from lead-poisoning, taken by herself while ignorant of its nature.

Oxalic Acid.—There have been two deaths in Leicester this week from oxalic-acid poisoning—viz., Louisa Jane Burley (53), at the inquest on whom an open verdict was returned, and a labourer who in a drunken fit committed suicide by drinking oxalic acid dissolved in cocoa.

Potassium Cyanide was used for purposes of self-destruction by Rose May Bowes (33), laundry manageress, of Willesden, who was in custody on a charge of stealing articles.

Strychnine.—At Sutton, Lena Constance Eyles (20), dental nurse, killed herself by taking an ounce and a half of strychnine solution.

Christmas Trade.

Preparation for it in a large Departmental Store. A Comparison by "Major" (75/41).

THERE is no doubt about the fact that the stores are "out to make money," as the saying goes, and in a large departmental store the truth of the statement is very apparent, especially so in the preparation for Christmas. Long before the time, the buyer of every department is the recipient of an order from the manager's office which informs him that matter for the Christmas list is required by a certain date. That is the first official notice. The buyer usually consults the previously issued list and removes or adds articles according to what he has for sale. By this time (usually the end of October or beginning of November) he has already ordered new goods, and he knows exactly what his stock will be. Manufacturers supply him with new blocks of perfumes, sprays, etc., for illustrating the list, and he always has a large supply of old types which are used periodically for that purpose. Drugs are usually absent from the Christmas list, since it is intended only for people who are buying luxuries and presents for friends. Nevertheless the part devoted to the drugs and perfumery department is quite a substantial one in regard to size, and contains illustrations of and references to many articles which most chemists stock but keep hidden away in cases and drawers lest by any chance a possible customer may see them and want to buy something. Such articles are hair-brushes, cloth-brushes, combs, shaving-mirrors and ladies' mirrors, and manicure sets, not forgetting a notable variety of perfumery.

The list does not require a great deal of time, and it certainly seems to be an easy part of the preparation. Perfumes held over from last year are laid out and are usually intended for a conspicuous place. It may be unnecessary to state that the buyer requires these to be sold if possible. With this end in view the salesmen are allowed a larger bonus on these older goods. One thing very noticeable in these modern businesses is the tremendous opportunities offered for selling the goods. Every article is shown to advantage in large and easily accessible cases. The customer sees everything arranged in front of him or her, the sight is pleasing to the eye, and invariably a sale results. How many people care to shop where the selection is small and goods are shown in a hesitating and awkward manner? Nowadays people must have a large choice, no matter whether it be perfumes or brushes, and it is only by paying attention to such side-lines as these that the drug-trade can be made to pay. Lavender water and eau de Cologne are bottled in large quantities in various kinds of bottles and at different prices. It is the same lavender and Cologne, but here again the desire for variety is remembered and paid attention to. A proprietary perfume is packed and sold in large quantities, but a factitious name is on the label to obviate the very general phrase, "Oh, it's your own preparation; give me So-and-so's." Hence the reason for the *alias*, and the sale goes merrily on. Of course, there is usually a perfume packed which does bear the proprietor's name, but it is sold at a slightly lower price. Scent sachets are to be found in great profusion, and a certain maker's Christmas card sachets are very popular. When all the goods are overhauled and carefully priced they are arranged in accordance with the wishes of the buyer. The salesmen know their bonus and proceed to earn it, and they usually do very well at Christmas time.

Compared with the usual chemist's business the stores at Christmas are a wonderful conglomeration of noise and bustle, and it is a time of very hard work for the assistants, who are usually glad when the season is over.

"The Chemists' Dictionary of Synonyms and Trade-Names."—The usefulness of a book of synonyms is obvious. This volume, although of British origin, is so comprehensive in its scope that it will not be without usefulness in any English-speaking country. No pretence is made that the book contains more than a modicum of the many existing names for medicinal substances and preparations. There are, however, almost 5,000 items, enough of the many to serve most ordinary purposes.—*The Druggists' Circular.*

Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries:

80/30. "Stictite": suppliers.
80/29. "Walter's hair soles: makers.
83/350. "Pariquinner": who supplies?
86/63. "Peerless" rubber gloves: makers.
88/44. Clarke's bronchitis-kettle: makers.
84/70. "Hinkletol," a disinfectant: supply.
84/71. Hamilton's asthma-powder: supply.
84/73. Eau de Cologne (No. 10411): makers.
80/2. "Floriss" floating bath-soap, perfumed.
83/35. "Kelly's Miraculous Cure" (for drunkenness).
83/351. "Cambridge" reading-lamp candles ("Diamond" brand).
85/15. Italian olive-oil soap, "Selle" or "Sayle" brand: importers.
86/38. "Zincet" or "Lineet plain, silver, and mercury": what is it and who supplies?
82/32. London agents for Randolph Paper-box Co., of Richmond, Va., makers of grease-proof boxes.

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to the makers or sellers of the following articles. The information will be repeated to other inquirers who send to this Department a stamped and addressed envelope for the purpose.

"A.D.C." aseptic dressings, 85/61
Abbott Alkaloidal Co.'s goods, 84/16
Advertising device for window-displays (South African inquiry), 82/32
Bacillus Bulgaricus (Metchnikoff), 79/9
Bedpans, earthenware, makers, 80/61
Bellchambers' bottles, 82/31
Bi-Carbol disinfectant, 78/2 and 84/12
Blandola, 86/14
Bone-turners' specialities, 82/5
Calcium aceto-salicylas, 80/31
Carlsbad, in powder, 83/27
Compressed moss, 80/49
"Daisy" fly-killer, 84/32
"Delphin" filter, 80/160
De Vilbiss atomisers, 75/29
Eidoscope lens, 79/32
Essential oil of camphor (in original packages). 85/9
Fels Naptha soap, 86/17
Hawthorne veterinary specialities, 86/62
Heat-producing gauze (manufacturers), 82/55
"Ideal" tooth-brush, 79/7
Kalyptogen, 83/58
Kemolin safety-razor. 75/16
"Lothian" extract of malt, 80/25
Lux Bros. soaps, etc., 79/44
Magnesia blocks (for use after shaving), 80/61
Marshall's pile-ointment, 77/46
Medicinal oxygen, makers, 86/46
Mercolised wax, 86/33
Mirror for reflecting telescopes, 85/14
Naldire's dog-soap, 79/21
Naphthaline blocks, 77/59
Orange sticks, 82/500
Paroleum, 82/4
Parsidium jelly, 86/330
Pastillas Evans, 86/191
Perry's pearl pills, 83/56
Petanelle products, 84/720
Pheminol, 86/500
Philomel, 86/50
Pildoras Eade, 86/19
Pill-making machinery (Belgian inquiry), 79/31
Pneumosan, 82/3
Pynair, 79/700
Ralston Still, 80/16
Russell's emulsion, 78/2
Sandow's embrocation, 79/22
"Sango," 79/70
Seamless Rubber Co.'s goods, 85/21
Seltzogenes, 82/54
Sequarine, 84/72
Slade's chilblain-remedy, 75/16
Smithson's nicotina fumigator, 81/26
Steedman's powders, 86/190
Systogen, 81/29
Trochettes, 80/32
Valora tea, 77/45
Venetian talc, 83/26
Vestosol, 80/48
Vitalia, 85/6

"The Standard" states that a record seizure of cocaine of the value of over 5,000*l.* is reported from Bombay. A man placed the drug in air-balloons and swam with them from ships to the dockyards. The man escaped, but the cocaine was seized.

OBSERVATIONS & REFLECTIONS.

By Xrayser II.

A National Medical Service

seems to be thought by the Advisory Committee the preferable alternative if the Government fails to arrive at an agreement with the profession "on the lines of the formation of panels under the Act," and one naturally begins to wonder what the effect of this would be upon ourselves. The objection I have heard most strongly urged against it is that patients would not be able to choose their own doctors. Does it follow that they could not choose their own pharmacists? Or would the State provide physic as well as physicians? And, in that case, will the pharmacist of the future be merely a salaried State dispenser? Or, once more, under this new *régime* (when it comes) will physic no longer be required? Some of the advocates of this alternative scheme almost seem to think so—that when the doctors cease to have a vested interest in our ailments we shall very rarely be ill at all. I do not think we need disquiet ourselves, however; the doctors will, if I am not greatly mistaken, be wise in time: an opportunity for olimbing down has been given them, and they will almost certainly take it. The general acceptance of the Act by the public it affects will be a powerful factor in the case, and Mr. Lloyd George's evident anxiety to meet the demands of the profession leaves little room for doubt as to the result.

The Dispensing Arrangements

under the Act may possibly be complicated by attempts on the part of medical men to open joint dispensaries managed by qualified chemists. I believe this is being talked of, but its coming to a head is another matter. I am not quite sure whether an arrangement of this character would not be a contravention of the regulations. Patients are supposed to have a choice of chemist as well as of doctor, but if they are directed by the doctor to take their prescriptions to a particular dispensary, freedom of choice at once disappears. Medical men may, however, have sufficient influence with their patients to have their expressed wish accepted, even if there be no definite instruction; and if patients are willing to accept the chemist—that is, the dispensary—recommended by the doctor, will there be any ground for complaint on the part of pharmacists generally? We may be sure that doctors will do their best to get the best results possible out of the Act, should they decide to work it.

The Poet Dante

can hardly, I am afraid, be classed as an apothecary, though it is true, as stated in your last week's "Retrospect," that in the year 1300 he was entered on the register of the company of apothecaries at Florence as "Dante d'Aldighiero, degli Aldighieri, poeta Fiorentino," and one of his modern biographers thinks it necessary to apologise for this—as he evidently considers it—degrading fact. All that it necessarily means, however, is that, being obliged by the law of the city to enter one of the twelve "arts" into which, for political purposes, the citizens engaged in commerce were divided, he chose this because it was one of the seven superior ones for which, as belonging to the lesser nobility, he was eligible. The chief purpose of this arbitrary division into "arts" was the readier enrolment of the citizens under particular standards in time of war or civil disturbance. Dante's choice of the apothecaries may nevertheless be taken as proof of his interest in medicine and the healing art, of which we have further evidence in his works. He was unique in his age for his encyclopædic knowledge no less than for his genius, and had doubtless studied medicine at Padua, then a centre of medical science. We may safely conclude that he was attracted to the apothecaries by natural sympathy, and that he had read widely in the subject of their art if he had not practised it.

The Pharmaceutical Society of Ireland

is to be congratulated on the steady progress that has characterised it during the past few years—a progress that must be especially gratifying to the veterans who have from the first given their best services to the cause of Irish pharmacy. I have occasionally criticised the policy of the Council in a matter of education, and I am much interested to observe that the Vice-President thinks that it will be necessary for the Councillors to reconsider their attitude in the matter of recognising outside schools. No doubt local circumstances, the importance of which a stranger like myself cannot appreciate, affect the matter, but I hope that, whatever be the final decision of the Council, it will tend to the encouragement of education in its broadest sense.

The Plant-names

of the new double-section of the Oxford Dictionary are perhaps of most interest to pharmacists, though many of them are obsolete or merely dialectal. *Senna* comes first in its older form, *sene*, the first *e* of which seems to have been long, since *seene* also occurs; *sena* is a later form, and *senna* has not been found before 1693. The name comes from the Arabic, and our first knowledge of the drug is owing to the Arabian physician Mesue (the elder). Senega-root appears to have been first called *Seneca rattle-snake root*, from the fact of its having been used by the Seneca Indians as an antidote against snake poison. Mr. Bradley suggests that the change of *c* to *g* may be due to association with (*gum*) *senega*=*gum Senegal*, but this seems a little far-fetched. The place-name *Seneca* reappears in *Seneca oil* (petroleum oil), so-called because the oil was first found near Seneca Lake in the State of New York. Sesame oil was once called *sergelim* oil (various spellings), an Arabic name, which, however, came to us through the Portuguese. *Senvy*, an old name for the mustard-plant, survived with us until 1795 (cf. the French *sénevé*). *Septfoil* is the old and proper form of *setfoil* (tormentil). *Serpentine* and *serpentary*, both from one root and having the same significance, are not given to the same plants, the latter being applied only to *Aristolochia Serpentaria*, the other being common to dragonwort, fœnugreek, and other plants. *Serpentary* is a name formerly given to a still or retort: one naturally looks in this connection for a reference to Keats's "cold serpent-pipe," but the Dictionary ignores it, as it does so many other equally interesting literary references. *Sepal* is a curious word, believed to have been formed by combining different syllables of *separatus* and *petalum*; thus we get the modern Latin *sepalum* (Fr. *sépale*). *Sesqui-* in the names of chemical salts was first used, in 1825, by Thomas Thomson, uncle of Professor J. M. Thomson, F.R.S., of King's College, London. *Setwall*, formerly used for *zedoary*, is now given to the plant valerian only. This instalment of the Dictionary, by the way, contains the longest article of the whole work, that on the verb *set*. *Set* altogether occupies nearly seventy columns, and its derivatives and compounds between thirty and forty more.

"Sanitas Disinfecting Fluid,"
"Sanitas Crude Disinfecting Fluid,"
"Sanitas Oil,"
"Sanitas Okol Fluid," 20 Co-efficient,
"Sanitas Bactox Fluid," 20 ,,
"Sanitas Creocide Fluid," 5 ,,
"Sanitas Soldis Fluid," 2 ,,
"Sanitas Pinos Fluid,"
"Sanitas Sulphur Fumigating Candles,"
"Sanitas Sulphugators,"
"Sanitas Formic Sulphugators,"
"Sanitas Formic Lamps,"
"Sanitas Formigators,"
"Sanitas Drain Testers,"
"Sanitas Weed Killer,"
Kingzett's Patent Preserved Peroxide of Hydrogen,
Carbolic Fluids, Powders, and Soaps.

"Sanitas" Pamphlet and "How to Disinfect" Book sent free.

THE "SANITAS" CO., Ltd., LONDON, E.

PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

58 Ludgate Hill, London. REGINALD W. BARKER.

REYNOLDS & BRANSON, LTD.,
Grand Prix LEEDS. Turin 1911.

PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories. B.P.C. (1911), Galenicals, &c.

SURGICAL INSTRUMENTS.
X-Ray Apparatus and Medical Batteries, Dressings, &c.

AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS
(Chemical, Physical and Photographic). Balances and Weights.

CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

S.V.M. METHYLATED SPIRIT
Also RECTIFIED SPIRIT.
S.V.R.
Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Road, LAMBETH, S.E.

G. S. MUMFORD & SONS, FARRINGDON RD. LONDON, E.C.

Finest ARROWROOT	1/ lb.	No. 1 Finest Pure FULLER'S EARTH (Light Colour)	15/ cwt.
BICARB. SODA Finest Extra Special	15/ cwt.	Finest Pure LIQUORICE JUICE	/10 lb.
BORACIC ACID POWDER, Finest	34/ cwt.	Finest Compound LIQUORICE POWDER	/8 & 1/lb.
No. 1 Finest Pure CRUSHED LINSEED No Oil Extracted	26/ cwt. 13/6=½ cwt 28/Sm.pcls.	PUMICE POWDER Extra Finest Levigated	35/ cwt.
No. 2 Pure CRUSHED LINSEED No Oil Extracted	25/ cwt. 13/=½ cwt 27/Sm.pcls.	No. 1 Finest Light Pure PRECIP. CHALK	25/ cwt.
Best Cleaned LINSEED	28/ cwt.	Finest Pure STARCH POWDER	22/ cwt.
EPSOM SALTS, E.S.S. Purified, Clean, and Dry	11/6 cwt.	Finest Pure TOILET OATMEAL, SPECIAL	32/ cwt.
Ditto, Medium Crystals	12/6 ,,	Finest Levigated "WHITE EARTH" (Toilet purposes)	18/ cwt.
FLOWERS OF SULPHUR, Finest English	13/6 cwt		
Ditto, Foreign	9/6 ,,		
FULLER'S EARTH (In Dredgers)	/1 /2 & /6 5/6 11/ 22/-		

Carriage Paid to railway stations within 200 miles of London (or allowance made for distances beyond). Terms, less 2½ per cent. Cash or 1 month net.

TOMLINSON & CO.'S
BUTTER POWDER.
BUTTER COLOUR.
ANNATTO EXTRACT.
POULTRY SPICE.
Seasonable Lines. Good Profits.
TOMLINSON & HAYWARD, Ltd., LINCOLN.

FLETCHERS' FOR TINCTURES, INFUSIONS, AND SYRUPS.
CONCENTRATED
Sole Proprietors:
FLETCHER, FLETCHER, & CO., Ltd.
London and Sydney.
LIQUORS

Editorial Articles.

The Menthol Famine.

Signs are not wanting that the rapidly increasing use of menthol in Europe and the United States during the past two years is leaving but a narrow margin between consumption and production, as instanced by the extreme scarcity which now exists on the principal consuming markets. Exactly a year ago similar conditions prevailed in the London market, which touched 30*s.* and 32*s.* 6*d.* for a short period. On this occasion, however, it would seem that even greater stringency prevails, it being stated that there are less than a dozen cases in stock, and that the price for cases is 33*s.* per lb., which has been paid. Relief to the present famine cannot be expected for another month or six weeks at least, when the new crop should begin to arrive. Even then the decline is likely to be gradual only, as consumers everywhere have been existing from hand to mouth owing to the high prices which have ruled throughout the year. It is reported that the new crop has been in excess of that of last year, and it would not be surprising if it was not "unusually large"; but the great increase in consumption and the absence of stocks are the principal governing conditions, and will be quite sufficient to offset the effect of a large crop. It must also be remembered that very high prices have been paid for new menthol in combination with oil—*e.g.*, in June last we reported heavy sales for September-October shipment at 23*s.* c.i.f., and later up to 25*s.* c.i.f. The table given below shows what the consumer has had to pay for spot menthol throughout this year:

	Menthol				Peppermint Oil			
	Spot		C.i.f.		Spot		C.i.f.	
	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest
	s. d.	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*
January	21 0	27 6	16 0	20 3	7 0	7 3	6 6	6 9
February	20 4	22 6	16 6	19 9	6 1	6 8	6 7	6 8
March	21 2	22 6	19 9	21 9	6 7	6 9	6 2	6 3
April	21 6	22 6	21 3	22 6	6 6	6 8	6 4½	6 6
May	20 11	22 9	20 6	25 7½	5 8	6 6	5 4½	5 6
June	22 0	23 0	16 6* 23 0	17 6 26 9	6 0	6 3	5 9	5 10½
July	22 0	23 6	18 2	22 3	5 9	6 0	5 9	5 10½
August	24 0	28 0	18 0	24 0	6 0	6 3	5 6	6 9
Sept.	28 0	28 6	24 6	27 0	5 10	6 0	5 3	5 9
Oct.	28 6	32 0	19 3	29 6	6 0	6 2	5 9	5 10½

* New-crop crystals for September-October shipment, etc.
† To October 17.

We also give the exports of menthol and oil from Japan month by month during 1910 and 1911. (Kin=1⅓ lb.)

	Menthol (Kin)			Peppermint Oil (Kin)		
	1910	1911	1912	1910	1911	1912
January	8,767	16,019	16,482	18,945	20,109	22,124
February	14,274	25,729	18,969	18,998	37,235	28,610
March	6,615	6,968	15,506	16,240	12,511	17,455
April	2,837	3,152	14,090	11,203	2,640	15,231
May	12,159	2,837	5,065	10,045	1,489	7,460
June	9,970	2,201	3,989	6,225	2,385	6,158
July	6,584	8,506	932	6,332	8,033	1,249
August	9,121	6,950	—	1,463	18,662	—
September	7,236	3,770	—	9,433	10,403	—
October	17,632	9,393	—	16,757	13,330	—
November	12,170	10,872	—	14,056	13,541	—
December	9,557	17,249	—	6,801	32,045	—
Kin (1⅓ lb.)	116,922	113,646	—	138,699	172,330	—
= lb.	155,896	151,528	—	184,900	229,800	—
= Cases of 60 lb. each	2,598	2,525	—	3,081	3,830	—
Value £	63,200	93,300	—	47,400	63,900	—

As regards the United States the imports for the twelve months ending June 30 (as published by the Bureau of Statistics) for the past five years are as follows :

	lb.	Value $
1907	20,665	39,860
1908	20,183	33,240
1909	23,975	36,963
1910	23,051	43,234
1911	50,533	122,977

The above figures show that for the period 1910-11 the United States imported 842 cases as compared with 384 cases in the corresponding period of 1909-10. This is a remarkable increase, and shows how the consumption in America alone has influenced the market, about one-third of the production of menthol going to that quarter, its chief use being for the "improvement" of American peppermint oil. Further information on Japanese peppermint is given by Mr. E. F. Crowe, (H.M.) Commercial Attaché at Yokohama, who has contributed to the "Board of Trade Journal" (October 10) an interesting and up-to-date article, to which brief reference was made last week. Mr. Crowe states that as the farmers last year obtained very good prices for their peppermint-leaves, it is quite certain that in ordinary circumstances there would have been an excessive supply of peppermint planted this year, but owing to the high prices obtainable for rice, farmers as a general rule preferred to plant it instead of peppermint. The result is that though this year's crop of the latter is larger than that of last year, the price has kept very high because the demand for menthol has increased. We learn that the best oil is produced in the Okayama and Hiroshima Prefectures, where three crops are obtained—viz., May, June, and August. The first crop contains about 47 per cent. of menthol, the second about 53 per cent., and the third about 60 per cent. In Yamagata Prefecture two crops are obtained, and in the Hokkaido only one; but the acreage planted in the Hokkaido is far larger than that in the other districts, so that even though Hokkaido oil contains only about 45 per cent. of menthol and there is only one crop, more than half the menthol comes from that province. The peppermint cultivated on low-lying ground, which can alternately be used for rice, yields oil richest in crystals. Attempts have been made to introduce the American and Mitcham plants, but they have not been successful.

Johore Ipecacuanha.

In view of the evidence to be tendered before the Dominions Royal Commission on the possibilities of drug-cultivation in the British Empire, we reproduce in exact size of the original a photograph of a particularly fine sample of official ipecacuanha grown in the East, as striking evidence of what has already been accomplished in that direction. The sample in question was picked out of a consignment of 36 bales which have just arrived in London and were disposed of at the drug-auction this week at very satisfactory prices. The piece is 8½ in. long over all, and has a maximum diameter of $\frac{5}{16}$ in., but it is evident that it is only a portion of a much longer root. The annulations are sufficiently marked to distinguish the specimen from Cartagena root, but they are not deep. As is well known, this ipecacuanha is cultivated on the rubber estates of the Highlands and Lowlands Para Rubber Co., Ltd., at Klang, in the State of Selangor. For many years past ipecacuanha has been cultivated in the Malay States, but nobody, with the exception of the late Mr. W. W. Bailey (a coffee and rubber planter who founded the above estates), appears to have made a distinct commercial success of it. So long ago as 1875 ipecacuanha was introduced into the Straits Settlements, the plants being brought from Ceylon. The first report of sales of Johore-grown ipecac. is in the *C. & D.*, May 19, 1888, when two packages imported from Singapore were offered at the drug-auction and sold at 6*s.* to 6*s.* 3*d.* per lb.; but it was not until ten or twelve years later that any appreciable quantity came forward—*e.g.*, in August 1902, ten packages were received and offered in the public auction. The origin of the cultivation is quite simple. Mr. Bailey was a coffee-planter and an expert in general on planting in

Johore Ipecacuanha.

the Straits. He planted the ipecacuanha merely as an experiment to see whether it would grow or not. At first all, or nearly all, the plants died, the ground where they were planted being much too dry. Later he got to know the conditions under which it would grow, and made various shipments to Europe. He also sent samples of the root to Java, Ceylon, and China, but they all proved a failure. He, in conversation with Mr. James McKenzie, of Singapore, said he used to grow it in Johore, but he found it grew to much better advantage in Selangor. It is a curious fact that the cultivation has been frequently tried at the Botanic Gardens, Singapore, but Mr. H. N. Ridley, the late director, stated that it never thrived well, probably on account of the dampness of the island. He found it very sensitive to rapid changes of weather: in hot weather it suffered much from the dryness of the atmosphere and heat, and heavy rainstorms were also fatal to it. A debatable question arises as to whether such fine specimens of ipecacuanha are really profitable to the manufacturer by containing a high proportion of alkaloid. Very few buyers, indeed, purchase on analysis; but those who do, not infrequently find that a lean specimen is more valuable to them than a plumper sample. The fact that the larger root contains more of the comparatively worthless central wood as well as starch would account for this apparent anomaly, which no doubt would be more frequent still were it not for the greater proportion of stem in parcels of lean ipecacuanha. First assays of Johore ipecacuanha, in 1887, showed 1.4 (MacEwan) and 1.7 (Ransom) of alkaloids. Umney and Swinton in 1898 also found the latter proportion. In 1902 the first consignment of importance, consisting of ten bales, was catalogued as containing 1.82 to 1.95 per cent. of alkaloids; a specimen examined on behalf of the *C. & D.* showed 1.83 per cent., and Paul and Cownley in the same year found 1.98 per cent. In 1907 an alkaloidal content of 1.81 per cent. was recorded (Evans) for Johore root. The present specimen has been assayed in the laboratories of The British Drug Houses, Ltd., and has been found to yield 1.6 per cent. of total alkaloid, somewhat below the average. This seems to bear out the contention that fine bold root is not necessarily the best, but it is not wise to postulate on one sample. It also follows that the leaner root marketed of late years is not necessarily poorer in alkaloid, the only record we can find (1907) showing that the alkaloidal content was practically unaltered.

It has been said that Matto Grosso ipecacuanha cannot be collected and brought to the coast under 6*s.* per lb.; but we should think Johore could be cultivated for much less. The cultivation, however, is very slow work, and although it is said to grow well it does not produce root in abundance. The first crop off fresh soil is usually good, but on trying to raise a second it invariably turns out leaner.

Poisonings in Scotland.

Table 39A appended to the "Fifty-sixth detailed Annual Report of the Registrar-General of Births, Deaths, and Marriages in Scotland" for 1910 relates to deaths from poisoning. We have rearranged it so as to compare poisonings in 1910 with those in the preceding two years. At first glance there is apparently a decided increase in both accidental and suicidal deaths due to poisons.

The fatalities due to chloroform anæsthesia more than account for the increase in accidental poisoning, and this is remarkable, as Scottish surgeons labour under the impression that their way of giving chloroform is the least fatal. The reverse seems to be the case. The number of persons seeking euthanasia by means of coal-gas has quadrupled. As regards poisons purchased from the pharmacist, there are no distinctive changes to call attention to, unless it be the fluctuations in the use of carbolic acid as a lethal agent and the steady increase in suicidal deaths from opium-poisoning.

Poisons Used	1908		1909		1910	
	Accident	Suicide	Accident	Suicide	Accident	Suicide
Acetylene	—	—	—	—	—	1
Acid—						
Carbolic	9	5	9	—	5	5
Carbonic (gas)	1	—	1	—	—	—
Hydrochloric	1	1	1	—	2	1
Hydrocyanic	1	—	—	3	—	—
Nitric	1	1	—	—	—	—
Oxalic	1	2	3	2	2	5
Sulphuric	—	—	—	—	2	—
A.B.C. liniment	—	—	1	—	—	—
Aconite and belladonna	—	—	—	—	3	—
Alcohol	2	—	1	—	3	—
Ammonia	2	2	2	1	—	2
Anæsthetics—						
Chloroform	22	—	25	—	43	—
Ether	1	—	—	—	3	—
Chloroform and ether	1	—	1	—	3	—
Cocaine	—	—	—	—	1	—
Stovaine	1	—	—	—	—	—
Kind not stated	11	—	8	—	2	—
Arsenic	—	—	—	—	1	—
Atropine	—	—	—	—	2	—
Barium nitrate	—	—	1	—	—	—
Blaud's pill	—	—	1	—	—	—
Carbon monoxide	4	—	3	—	8	—
Chloral hydrate	2	—	1	—	—	—
Chloral and bromide	—	—	1	—	—	—
Chloral and opium	1	—	—	—	—	—
Chlorodyne	—	—	1	—	—	—
Chloroform	3	1	2	1	4	1
Coal-gas	10	3	11	4	11	16
Cocaine	1	—	—	—	—	—
Ergotin	—	—	1	—	—	—
Formalin	—	—	—	—	1	—
Hemlock	1	—	—	—	1	—
"Killgerm" disinfectant	—	—	—	—	—	1
Laburnum	—	—	2	—	—	—
Mercury and its salts	3	—	1	—	—	—
Narcotic	4	—	2	—	1	1
Nicoticide	—	—	1	—	1	—
Opium and its preparations	27	4	12	6	14	8
Paraldehyde	—	—	—	—	1	—
Phenacetin	—	—	—	—	1	—
Phosphorus	—	—	3	—	2	—
Poisonous berry	—	—	1	—	—	—
Poisonous gases	3	2	3	—	—	—
Potassium cyanide	—	1	—	2	1	1
Strychnine	2	1	1	1	3	—
Strychnine (Easton's syrup)	—	—	1	—	—	—
Trional	1	—	—	—	—	—
Vermin-killer	—	1	—	—	—	—
Veronal	1	—	—	—	—	1
Unspecified	2	3	5	2	4	2
Total	119	27	106	22	125	45

False Yerba Maté.—The National Council of Hygiene of Argentina has been making an investigation and has reported that the greater part of the yerba maté ("Paraguayan tea") elaborated in Argentina and sold in the stores is composed of ingredients the principal one of which is "congonilla." The Commercial Defence League has taken the matter up, and the Minister of Agriculture has been invited to make an inquiry into the allegations.

Congress of Applied Chemistry.

WE propose to print as space permits abstracts of papers of pharmaceutical interest which were communicated to the International Congress of Applied Chemistry held at New York last month.

A Field of Belladonna
On the farm of Eli Lilly & Co., Indianapolis.

This and other photographs already published were exhibited in the Pharmaceutical Chemistry Section and created much interest.

Estimation of Alkaloids.

Dr. G. H. Meeker described in a paper to the Pharmaceutical Chemistry Section an apparatus for the prevention of emulsification in alkaloidal extractions by means of immiscible solvents. This consists of a vertical shaft rotated by a motor on the axis of a separator and bearing a two-blade propeller working in the lower solvent and another propeller with a reversed thrust in the upper liquid. The shaft is rotated so that the lower propeller drives the liquid in an upward direction. Sufficient work has been done to show that the method is effective. A table of assays was also given. The only difficulty experienced is that the apparatus cannot be used with small quantities of solvents.

Mr. A. C. Mangold, in investigating various

Arsenites of Alkaloids,

including those of quinine, cinchonidine, cinchonine, quinidine, brucine, and strychnine, found that arsenious acid does not combine with the alkaloid to form a true salt, but simply adheres to it. With arsenic acid definite crystalline compounds are formed.

The Influence of the Chemical Constitution of Certain Organic Hydroxyl and Aminic Derivatives on their Germicidal Power. (*Biochemical Section.*)

Professor Gilbert T. Morgan, F.I.C., F.C.S., and Mr. E. Ashley Cooper, B.Sc., made this communication to the Biochemical Section, Professor Morgan reading it. The germicidal action of the compounds under examination was compared with that of phenol acting on an equal number of organisms of the same species in a constant volume of solution (5 c.c.) during a constant period of time (fifteen minutes) and at a constant temperature (20° C.), the only variable being the concentration of the active substance. The average of the lowest concentration of the substance which killed and the highest concentration which failed to kill the organisms was compared with the corresponding mean phenol concentration, the latter divided by the former being the "carbolic-acid coefficient" of the substance. The organisms used were *Bacillus typhosus, Staphylococcus pyogenes aureus,* and *Bacillus coli.* The germicidal power of the alcohols is far less than that of the phenols, the primary alcohols being more active than the secondary and tertiary alcohols. The carbolic-acid coefficients of the cresols and *m* and *p* nitrophenols are greater than unity, and two of the isomeric dihydroxynaphthalenes ($\beta\beta$=2:3 and 2:7) are very active in aqueous solution, although the dihydroxybenzenes do not show any exceptional bactericidal power. The germicidal action of the aromatic amines is very low and stands in marked contrast to that of the aliphatic amines which, with the exception of the ethylenediamine, gave high coefficients, the number for *n*-heptylamine being 24.3. The hydrogenation of an aromatic amine raises the coefficient, *ac*-tetrahydro-β-naphthylamine giving the value 5.3. The lowest coefficient (.18) for any base was given by pyridine. The aerial oxidation of aromatic amines increases perceptibly their carbolic-acid coefficients.

Practical Notes and Formulae.

Insect-bites

are best treated, according to the "Journal de Médecine de Paris," by touching with the following liquid :

Menthol	1 part
Ether	10 parts

Solve.

Two French Dentifrices.

Dr. Le Gendre, Paris, in the "Journal de Médecine de Paris," gives the following formula for tooth-powders :

1.		2.	
Finely powdered boric acid ...	10 parts	Lithium carbonate	2 parts
Potassium chlorate	5 parts	Calcium carbonate	20 parts
Powdered guaiacum	5 parts	Magnesium carbonate	20 parts
Calcium carbonate	20 parts	Wintergreen oil	a sufficiency
Magnesium carbonate	20 parts		
Peppermint or geranium oil	a sufficiency		

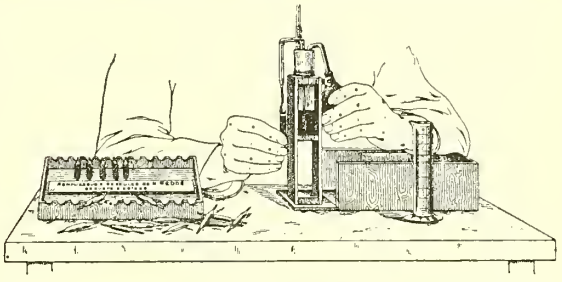
Depilatory.

Dr. Sabourand has devised ("Répertoire de Pharmacie") the following pomade for removing downy hair from the upper lip of women. He claims to have adjusted the strength so that a gentle action is obtained, and when the hairs fall, those which replace them are of a much feebler growth. These are in turn treated with the pomade :

Thallium acetate	0.3 gram
Zinc oxide	2 grams
Vaseline	20 grams
Lanoline	5 grams
Rose-water	5 grams

Filling Ampoules.

M. H. Reddé in the "Journal de Pharmacie" describes an apparatus for filling ampoules for use at the dispensing-counter. It will be seen from the engraving that the apparatus is fixed to one end of a box, and when



not in use is folded out of position. The flask is fitted with a rubber cork pierced with three holes; into one is fixed a glass tube bent twice at right angles, one end dips to the bottom of the flask, and the other has soldered on to it a fine platinum point of such a diameter that it can enter the open end of an ampoule and yet allow the liquid to pass easily. The second tube, bent in a similar manner, does not dip beneath the liquid, and the outer end is fitted with a rubber bulb. The bulb has in it a hole that can be covered by the thumb when it is desired to obtain an air-pressure on the contents of the flask. The third hole in the rubber cork is stopped by a piece of glass rod or a stopcock, and is intended for filling the flask. A filter-candle can also be fitted at this position if the liquid that is being employed is one that cannot be sterilised by heat. The method of using the apparatus is fairly obvious.

REVIEWS.

Medical Benefit: A Study of the Experience of Germany and Denmark. By I. G. Gibbon, B.A., D.Sc. $8\frac{1}{2}$ in. × $5\frac{1}{4}$ in. Pp. 296. 6*s.* net. (London: P. S. King & Son. 1912.)

The administration of the medical benefit under the National Insurance Act is one of the most topical subjects, especially in medical and pharmaceutical circles, so that Dr. Gibbon's book should attract a number of those who are exercising their intellects on the various aspects of the question of medical benefit. The author deals with the corresponding schemes in Germany and Denmark, the former country having compulsory Health Insurance, while in Denmark a voluntary system is in vogue. The impossibility of an exact comparison of the Continental and British schemes has been pointed out on many occasions, and this will be realised before many chapters of the book have been perused. One thing which remains constant seems to be the struggle between the doctors and the societies regarding the payments for medical services. What may have to be gone through in this country is foreshadowed in appendices summarising the conflicts in Leipsic and Cologne. We have given in The Chemist and Druggist at various times the cost of drugs and payments to pharmacists in countries where Health Insurance is compulsory, but these figures, again, are not always comparable. In this book a good deal of information on this head is given in the chapters on medical and surgical requirements (this includes drugs), but it must be borne in mind that the figures include in some cases the supply of drugs for dependants of members, baths and massage. Here it is shown that the lowest expenditure per member is at Hamburg, where 3*s.* 7*d.* is spent on medical and surgical requirements; and the highest, 6*s.* 3*d.*, at Kiel, the cost being from 9 to 14 per cent. of the total expenditure. The author states that Health Insurance in Germany has not diminished the demand for patent medicines. We note also that valetudinarianism—the exaggeration of existing ills or the imagining of ills that do not exist—has resulted from the provision of medical benefit, and has probably materially affected the success of the Health Insurance scheme in Germany. We commend the book to those who are studying the subject.

NEW BOOKS.

Any of these books printed in the United Kingdom can be supplied, at the published price, to "C. & D." subscribers on application (with remittance) to the Publisher, 42 Cannon Street, London, E.C. These notes do not exclude subsequent reviews.

Armstrong, E. F. *Simple Carbohydrates and the Glucosides.* 2nd edit. Ryl. 8vo. 5*s.* net. (Longmans.)

Bennett, R. R. *Materia Medica and Pharmacy for Medical Students, with an Appendix on Incompatibility.* 2nd edit. $6\frac{1}{2}$×4. Pp. 247. 4*s.* 6*d.* net. (Lewis.) [This book was first published four years ago. Apart from the introductory matter, which is chiefly explanatory, the contents are divided into groups: (I) General Remedies, (II) Local Remedies, (III) Extraneous Remedies. Then follow posological tables, including standard strengths of certain potent drugs and preparations, and an Appendix dealing with incompatibles. It is compact, informative, and well done.]

Douglas, John. *Year-book of the Scottish Associations, 1912-13.* $6\frac{3}{4}$×$4\frac{1}{4}$. Pp. 144. (Published by the Author, Douglas Wharf, Putney, London, S.W. 6*d.*) [A complete guide to Scottish societies at home and abroad, especially in London; India, Australasia, Canada, and the British Colonies generally being fully covered.]

Kraemer, H. *Outlines of Courses in Botany, Microscopy, and Pharmacognosy.* With question sets for the use of teachers and students. $9\frac{3}{8}$×$6\frac{1}{2}$. Pp. 50. Paper covers. (Lippincott.) [The outlines are based on Professor Kraemer's well-known "Text-book in Botany and Pharmacognosy," numerical references being made throughout to that book. The idea is to present to the student a skeleton of the work he has to do during a three-years' course, so that he can the better grasp the subjects.]

Lynch, H. F., and Rudall, A. R. *Redress by Arbitration: A Digest of the Law Relating to Arbitration and Awards, Incorporating the Arbitration Act of 1889 and the Decisions of the Courts thereon.* $8\frac{5}{8}$×$5\frac{3}{8}$. Pp. 102. 5*s.* (E. Wilson, 54 Threadneedle Street, London, E.C.) [A useful book which sets forth the law on the subject of arbitration in a form which makes it useful in commercial circles and for law students. The method adopted has been to take the Arbitration Act, 1889, which was a consolidating and amending Act, section by section, and give comments and explanatory illustrations, with copious references to decided cases.]

Oyster, J. H. *The "Spatula" Ink Formulary: Recipes and Directions for Making all Kinds of Inks for all Kinds of Purposes.* $10\frac{3}{8}$×$3\frac{7}{8}$. Pp. 171. ("Spatula" Publishing Co., Boston, Mass.) [A collection of formulæ for making inks which will be useful to those who desire to manufacture ordinary or special writing fluids. The book suffers from the defects that the recipes are not apparently arranged on any definite plan, and there is no index, while there are numerous "doubles."]

TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(*From the "Trade-marks Journal," October 2, 1912.*)

"Pedoids," for medicinal chemicals (3), and for perfumery, etc. (48); "Astmoids," for perfumery, etc. (48). By Regesan, Ltd., 7A Laurence Pountney Hill, Cannon Street, London, E.C. 345,264/5, 345,263.

"Romak" and "Rusno"; for medicinal chemicals (3). By Miller & Co., 235 Ingram Street, Glasgow. 345,081/2.

"Alono"; for goods (47), and for perfumery, etc. (48). By Co-operative Wholesale Society, Ltd., 1 Balloon Street, Manchester. 345,258/9.

"Alma Zada" and "Violet Dulce," with device of shield, etc. ("Violet Dulce" disclaimed); for perfumery, etc. (48). By United Drug Co., 43 Leon Street, Boston, Mass., U.S.A. 344,722, 344,946.

"Lotuly"; for perfumed toilet-soap (48). By D. & W. Gibbs, Ltd., Wapping, London, E. 344,958.

(*From the "Trade-marks Journal," October 9, 1912.*)

"Solutal"; for ferments or enzymes (1, 3, and 42). By Solutal, Ltd., 33A The Broadway, Hammersmith, W. 344,990/1/2.

"Tencos"; for a disinfectant (2). By E. J. Green, Langthorpe, Boroughbridge, Yorkshire. 343,886.

"Marol"; for a liquid to protect seed (2). By E. E. Mayer & Co., Ltd., 6 Lloyd's Avenue, London, E.C. 344,381.

"Aleudrin"; for chemicals (2 and 3). By Dr. B. Beckmann Chemische Fabrik G.m.b.h., Belle-Alliance Strasse 92, Berlin. 344,925/6.

"Grotan"; for disinfectants (2). By Schülke & Mayr, Moorfuhrtweg 13 and 15, Hamburg. 345,173.

"Nazone"; for goods (3). By R. H. Speight, 2 Central Beach, Blackpool. 343,860.

Device of lifebelt and lighthouse with word "Fastnet" ("Fastnet" disclaimed); for medicated surgical dressings (3). By the "Fastnet" Surgical Dressing Co., Ltd., Highbury, London, N. 343,566.

"Yunglo"; for a medicated lotion (3). By Amy Sainton, Grove House, Seymour Place, London, S.W. 344,787.

"Leciko"; for medicines (3). By Schacht, Warner & Co., 55 Fore Street, London, E.C. 344,804.

"Unora"; for a health-salt (3). By Greer & Co., 54 and 56 Victoria Street, Manchester. 344,809.

"Chestilene"; for medicated confectionery (3). By G. Rateliffe, 23 Dewsbury Road, Leeds. 344,841.

"Mellicose"; for medicines (3). By C. W. Franeis, 69 St. Oswald's Road, Small Heath, Birmingham. 345,153.

"Lubricol"; for a medicine (3). By J. Cofman-Nicoresti, 6 Bloomsbury Street, London, W.C. 345,271.

"Namni"; for perfumery, etc. (48). By L. D. Inman, 8 Cambridge Crescent, Harrogate. 344,785.

"Les Secret des Dieux"; for perfumery, etc. (48). By Yardley & Co., Ltd., Stratford, London, E. 345,257.

National Health Insurance.

Notes.

Mr. W. A. Wynne and Mr. Cragg James have been elected on the Provisional Borough Insurance Committee for Birkenhead.

Mr. Edmund Jones, Past President of the North Staffordshire Chemists' Association, has been appointed one of Stoke-on-Trent's representatives on the Cheshire Joint Sanatorium Board. He is also a member of the Insurance Sub-Committee which is making arrangements for the administration of medical benefit.

Cost of Medicines.

Dr. John J. Atteridge, of North Kensington, has been interviewed by the "Westminster Gazette," and speaking regarding the provision of medicines said that

The method of paying the chemists itself is the most expensive that could be adopted—every bottle being paid for individually. If in the more populous districts Insurance dispensaries could be provided and furnished with the best medicines and appliances the cost would not be more than tenpence or a shilling a head. Under the proposed arrangement it will be at least eighteenpence a head.

There appears to be a strong feeling among medical men about the regulation providing for certain payments before any money is appropriated to doctors, as questions in the House of Commons show, and some modification is probable.

Provision of Drugs and Appliances.

According to No. 40 in the Provisional Regulations printed in the *C. & D.*, October 5, index folio 535, the Insurance Committees are to consult the local Medical Committees in revising the list of drugs and appliances and "submit for the approval of the Commissioners a statement of any alterations which the Committee may desire to make in the *price* of drugs and prescribed appliances, and where the Commissioners have prescribed any further appliances of the prices which the Committee are prepared to pay for those appliances." The word "price" which we have italicised appears to be a misprint for "list," and if it is permitted to remain it may have a very material, if not prejudicial, influence upon those who are to supply drugs and appliances. It seems desirable that if those who prescribe drugs are to have a voice in fixing the prices, so should those who supply them. We have communicated, therefore, with the National Insurance Commissioners on the matter in order that the error, if any, may be corrected.

Sanatorium Treatment.

The Stoke-on-Trent Insurance Committee has concluded arrangements with the local medical profession for the fees to be paid for the domiciliary treatment of tuberculous cases. The scale has been adopted temporarily, the Committee expressing the opinion that the fee asked for, for an injection of tuberculin—5*s.*—is excessive. The list of fees is as follows :

Report on Form Med. 2, 5*s.*; first consultation or visit with medicine and including reports from time to time on sanitary defects under Article II (7) of the Local Government Board's Order, 7*s.* 6*d.*; other visits or consultations and medicine, 2*s.* 6*d.*; consultations in accordance with Local Government Board's Order, Article II (4) and (6), 3*s.* 6*d.* (this fee to be in substitution for a 2*s.* 6*d.* visit and consultation); report in accordance with Article II (5), 2*s.* 6*d.*; urgent or emergency day or night visit and medicine with immediate report to the Medical Officer of Health, 5*s.*; for each injection of tuberculin (including consultation or visit), 5*s.* (tuberculin to be paid for by the Committee).

The Insurance Committee, at their meeting on October 10, decided that, pending the erection of the Cheshire Sanatorium by the Joint Board of which Stoke is a member, cases should be sent to the Blencathra Sanatorium in Cumberland at a charge of two guineas per week. It was resolved to send one case to the sanatorium for three months' treatment at an estimated cost of 26*l.*, and to give domiciliary treatment in a number of other cases.

WESTMINSTER WISDOM.

The Week in Parliament.

The Ministerial Programme.

The Chancellor of the Exchequer announced in the early hours of Tuesday morning that the Government propose to place the Inebriates Bill and the Mental Deficiency Bill on the Statute Book before the close of the present Session.

Bee Disease Bill.

This Bill, introduced by the President of the Board of Agriculture, was read a second time in the House of Commons on Wednesday. It provides that the importation of infected bees shall be under regulation, and, if necessary, prohibited; and that where the disease has spread to any area the local authority may inspect, and in case of hopeless infection destroy, the hives.

Medical Act, 1886.

The President of the Council (Viscount Morley) introduced into the House of Lords on October 14 a Bill to amend Section 8 of the Medical Act, 1886, and it was read a third time. The section deals with the regulations for the election of five medical practitioners as direct representatives on the General Medical Council. His Lordship did not explain the nature of the amendment proposed.

Select Committee on Patent Medicines.

Our Parliamentary correspondent is informed that the reason which has actuated Mr. Hodge in resigning his seat on this Committee is the fact that he is also a member of the newly created Industrial Council, which requires a good deal of his time. In the circumstances Mr. O'Grady, the Labour member for East Leeds, has been appointed to succeed him, as reported in the *C. & D.* last week.

Shops Act.

The Postmaster-General informed Mr. Starkey in the House of Commons on Tuesday that the early-closing day varies in different towns, but that telegrams received after an office is closed are delivered from a neighbouring office without extra charge.

Mr. Birrell informed Mr. G. H. Roberts, M.P., in the House of Commons on the same day that the local authorities at Longford, Granard, Nenagh, and Thurles have so far failed to carry out the duties imposed upon them by the Shops Act. Steps are being taken with a view to the institution of legal proceedings.

The Flotsam and Jetsam of the Session.

Now that the Government has allocated the whole of the remainder of the present Session to Government business, it will be apparent that little or no opportunity will present itself for the passing of any of the departmental or other measures which at present stand at various stages on the Order-book of both Houses of Parliament. Mr. Lansbury's Abolition of Vivisection Bill has been dropped, as have been Mr. Wardle's Character Note Bill, the two Calendar Reform Bills standing in the names of Mr. R. Harcourt and Mr. R. Pearce, Mr. Goulding's Merchandise Marks Bill, Mr. Cassel's National Insurance Act Amendment Bill, Mr. Fergusson's Nurses' Registration Bill, and Mr. Black's Vaccination Acts (Repeal) Bill. The Government Bankruptcy Bill was down for second reading in the House of Commons on Monday, but was not reached. The Veterinary Operations (Anæsthetics) Bill of Mr. Walter Guinness and the Veterinary Surgeons Act, 1881 (Amendment), Bill were down for second reading on Monday, but were also not reached.

National Insurance Act.

The Chancellor of the Exchequer announced on Tuesday that it is not the intention of the Government to amend that section of the Act which provides for the taxation of employers in respect of persons who have themselves obtained exemption from taxation under the Act.

Mr. Oliver Locker-Lampson on Monday, October 14, asked the Chancellor of the Exchequer if he would state how much additional money would be required to pay the doctors under the National Insurance Act 8*s.* 6*d.* per head instead of the sum originally decided upon.—Mr. Masterman replied that, if by the sum originally decided the

hon. member meant the sum of 6*s*. per insured person in the original actuarial estimates as the cost of medical benefit, the additional sum required to raise the 6*s*. to 8*s*. 6*d*. would be approximately 1½ million a year. At the same time, in reply to Mr. Lansbury's long question *re* medical benefit and drugs (printed in the *C. & D.*, October 12, index folio 577), Mr. Masterman said that the draft regulations now before Parliament cannot be interpreted except in connection with the general question of remuneration for medical benefit under the Act. This question is still under the consideration of the Government, and his right hon. friend—the Chancellor of the Exchequer—hoped to make an announcement on the subject in the immediate future.

Sir Arthur Markham put the following question to Mr. Masterman, Secretary to the Treasury, on Thursday, October 17 :

Whether he has sanctioned Clause 28 of the regulations issued by the Insurance Commissioners, which provides, for the purpose of determining the amount of remuneration payable to medical men, that the Committees shall determine the total amount to defray the cost of medical benefits and shall deduct therefrom certain specific charges, and that the sums remaining shall be paid to medical men; and whether, in view of the declared policy of the Government that insured persons should have the benefit of having the best drugs irrespective of cost, he will say if under this regulation a medical man prescribes expensive drugs his salary will be reduced accordingly.

Mr. Masterman, in reply, said : As I stated in answer to Mr. Lansbury on Monday, the draft regulations now before Parliament cannot be interpreted except with the regulations for medical benefit under the Insurance Act. This question is still under consideration by the Government, and my friend the Right Hon. the Chancellor of the Exchequer hopes to make an announcement on the subject in a few days' time.

Mr. A. Sherwell, M.P., has given notice of his intention to call attention to the working of the Act and to move a resolution. This is technically what is known as a "blocking motion," and no day having been fixed or being possible for the initiation of such a discussion the only effect is that, under the rules of the House, it will be the means of preventing the Act from being discussed under a motion for the adjournment of the House or in any other way.

The Cabinet met on Wednesday, October 16, and again on Thursday. It is understood that the question of Medical Benefit was again engaging the attention of Ministers. On Monday next the Chancellor of the Exchequer will be invited by Sir P. Magnus to state the result of these negotiations, but it is doubtful whether the right hon. gentleman will be in a position to do so, as he has already promised to first communicate the decision of the Cabinet to the Advisory Committee. Sir Philip will ask the Chancellor to state the additional sum which he is prepared to recommend Parliament to set aside for Medical Benefit and also what would be the normal amount offered for each insured person, with or without drugs, and the arrangements which have been suggested for securing, where necessary, exceptional medical or surgical treatment.

AT THE COUNTER.

"Take three parts sulphuric acid, and one part glycerine, diluted with the same quantity of water. Paint the affected parts, and the itch will at once be allayed." So the order read, but the chemist intervened and supplied sulphurous acid.

What are They?—You frequently print curious orders. Here is one I had the other day : Oil of ben, oil of duety, oil of bindochi, oil of man, and oil of Exeter. (29/70.) These are old-fashioned names, and all of them, except the third, are mentioned in our "Chemist's Dictionary of Synonyms and Trade Names."

A Cosmopolitan Prescription.—A chemist in Shanghai recently had a prescription for jambul-seeds, its history being as follows : Written by a German physician. For jambul-seeds—grown in India, compressed into tablets by a Jap in Japan, brought to the chemist by a Chinese servant, dispensed by a British chemist, to be taken by a Norwegian.

WINTER SESSION.

Secretaries of Associations whose meetings are not open to reporters are requested to send their reports to the Editor not later than the Wednesday or Thursday following the meeting. Notices of meetings to be held are inserted under "Coming Events" if received by the Editor not later than the Wednesday of the week before the meetings are held.

Bath.—The annual meeting of the Bath Pharmaceutical Association was held on October 10 at the Literary Institute. There were present Messrs. Luther Wilson (in the chair), A. C. Olds, J. W. Cooper, J. G. Hall, E. Williams, H. Gedge, D. J. Williams, Miss Rennie, H. Norris, W. J. Hallett, and J. G. Hawes. The financial statement and the Secretary's report were adopted. Mr. Luther Wilson was re-elected *President* for the ensuing session, and the other officers were apointed as follows: *Vice-Presidents*, Messrs. H. Gedge and A. L. Snow; *Treasurer*, Mr. J. W. Cooper; *Hon. Secretary*, Mr. J. G. Hawes (re-elected); *Committee*, Messrs. Hallett, J. Hall, A. C. Olds, E. Loveless, A. H. Cooper, and D. Evans. Mr. D. J. Williams was nominated as Divisional Secretary. A discussion took place on the National Insurance Act draft regulations for medical benefit, and Mr. Hallett, a member of the Pharmaceutical Standing Committee (England) and also on the local Insurance Committee, explained features of the regulations.

Birkenhead.—The first meeting of the session of the Birkenhead and Wirral Association of Pharmacists was held at Birkenhead on October 10. There were present Messrs. Tottle, Welton, Snow, Cookson, Stockdale, W. G. Snow, Mellor, Caine, Govier, Woodfield Cooke, Kendall, Stephen Jones, Somerville, Stones, Stelfox, Wynne, Cragg James, Sturt, Wood, and Grant. The following officers for the ensuing year were elected: *President*, Mr. C. Woodfield Cooke (Hoylake); *Vice-Presidents*, Messrs. Stelfox and Stephen Jones; *Treasurer*, Mr. Somerville; *Hon. Secretary*, Mr. Elder; *Committee*, Messrs. Wynne, Snow, Sturt, Rowlands, Cooling, Ellithorne, Stones, and Welton; *Auditors*, Messrs. Govier and Mellor. Messrs. Somerville and Stones were nominated as Divisional Secretaries. Mr. Alfred Lewis and Mr. H. L. Welton were elected new members. The Secretary's and Treasurer's reports were presented and adopted. The medical regulations of the National Insurance Act were then discussed, and it was arranged to hold a further meeting regarding this matter.

C.A.A.—The inaugural meeting of the present session of the Chemists' Assistants' Association was held at 73 Newman Street, London, W., on October 10. About fifty members gathered to hear the forcible inaugural address by the President (Mr. P. B. Phillips). This, although following conventional lines by reviewing the history and objects of the Association, reminded the members that they, as well as the Association, had duties to fulfil. Regarding the long hours and insufficient salary of assistant pharmacists, the President said that "we can only point to ourselves" as the cause of this unsatisfactory state of affairs. The assistant in the past has been grossly apathetic, and at the same time a grumbler, and there is all the difference between grumbling and healthy discontent. An appeal was made for a more practicable construction to be placed on the words "the discussing of all matters affecting their welfare"; for what is the use of discussion if it is not followed by action? The membership at the end of last session was eighty-two. He set as a task for this session a membership of two hundred as a minimum. Mr. F. Naylor thanked the President for his address, Mr. Crossley Holland supporting the vote. Fifty-one new members were proposed during the evening, a large proportion of the proposals being brought forward by the President. A short musical programme was gone through afterwards, the contributors being Messrs. Phillips and C. W. Gosling (pianoforte solos), the President and Mr. F. W. Crossley Holland (piano sketches), and J. S. Waddell (songs).

Cambridge.—The annual meeting of the Cambridge Pharmaceutical Association was held at Croydon Chambers, Regent Street, on October 8. There were present Messrs. E. H. Church (in the chair), Evans, Deek, S. J. Parson, E. S. Peck, G. Beall, H. F. Cook, J. Wood, W. F. Turner, S. F. Barker, B. S. Campkin, E. Titterington, Tuck, and the Hon. Secretary (T. J. Mallett). The Secretary's report and the balance-sheet were unanimously adopted. Alderman A. Sidney Campkin, J.P., and Alderman H. F. Cook, J.P., were again nominated as Divisional Secretaries, and the annual donation to the Benevolent Fund was agreed to. Messrs. Peck, Church, Evans, and Mallett were reappointed with the Divisional Secretaries on the Local Organisation Committee. Messrs. Peck and Cook reported as delegates to the British Pharmaceutical Conference at

Edinburgh, and Mr. Titterington as Hon. Secretary for the Junior Association. Mr. E. S. Peck gave particulars as to a joint meeting of representatives of the local medical men and the Association, and conveyed the impression that in Cambridge there is a possibility of a smooth working of the *National Insurance Act* between the two bodies. This gave rise to discussion, and it was unanimously resolved not to enter into any contract with the Local Insurance Committee for the dispensing of medicines and the supply of medical requisites until the terms of the contract have first been approved by the Executive of the Association. The following officers were then elected: *President*, Mr. J. Evans; *Vice-Presidents*, Alderman A. Sidney Campkin, J.P., Alderman H. F. Cook, J.P., Mr. E. H. Church and Mr. W. Lincoln (Ely); *Treasurer*, Mr. Hy. Flanders; *Hon. Secretary*, Mr. T. J. Mallett; *Committee*, Messrs. S. F. Barker, Geo. Beall, E. S. Peck, A. Deck, J. Wood, B. S. Campkin; *Auditor*, Mr. S. J. Parson. Votes of thanks were passed to the outgoing officers. A portrait of Mr. John Evans, the newly elected President, was published in the *C. & D.*, July 30, 1910, p. 182.—A meeting of the *Cambridge Junior Pharmaceutical Association* was held at Croydon Chambers, Regent Street, on October 4. There were present Messrs. Course (in the chair), Laxton, Tuck, Knowles, Atkins, Pedley, Alderton, Wilson, Speakman, jun., Miss Moss, and the Hon. Secretary (Mr. E. Titterington), who contributed a paper on "Some Notes on Elementary Botany," dealing with some simple forms of plant life, the histology of the cell, and the seed and root of a typical flowering plant. A discussion followed, and Mr. Titterington promised to continue his paper at a future date.

Chesterfield.—Mr. George Wright presided at a meeting of the Chesterfield and District Pharmacists' Association held at the Hotel Portland on October 15, when Messrs. Bould (Clowne), J. R. D. Barfoot, J. Dent, F. J. Houston (New Whittington), Sidney Greaves, Elliott (Whittington Moor), J. H. Wilbourn (Harland), Dales (Brimington), and J. H. Toplis (Hon. Secretary) were also present. The Insurance Medical Benefit Regulations were discussed, and it was decided to join in with the Derby and Ilkeston Associations at a meeting to be held at Derby on October 30. It was agreed to communicate with the Secretary of the County Insurance Committee, asking for an opportunity of discussing terms for the supply of drugs, medicines, and appliances. It was agreed that the next meeting should be open to all chemists in the district.

Doncaster.—The annual meeting of the Doncaster Association of Pharmacists was held at the Albany Hotel on October 8, Mr. W. E. Plant in the chair. There were also present Messrs. M. H. Stiles, F. W. Playford, H. W. Shaw, J. P. Norwood, F. Brook, J. C. Marr, C. Parkin, G. Booker, E. A. Collings, and the Hon. Secretary (Harry W. Stiles). The financial statement, showing a balance in hand, was approved of. The following officers were elected: *President*, Mr. W. E. Plant; *Vice-Presidents*, Messrs. M. H. Stiles and C. Parkin; *Secretary and Treasurer*, Mr. Harry W. Stiles; *Committee*, Messrs. F. W. Playford, H. W. Shaw, and the officers. Mr. M. H. Stiles was approved of as Divisional Secretary. A discussion took place with regard to the National Insurance Act. Each person present signified his intention of having his name placed on the panel.

Dundee.—Mr. A. Soutar presided at the opening meeting of the Dundee Chemists' Assistants' and Apprentices' Association, held in Mather's Hotel on Friday, October 4, when Dr. J. S. Y. Roger read a paper on "Medicine and Pharmacy: Past, Present, and Future."

Eastbourne.—Mr. James Forbes presided at the meeting of the Eastbourne Pharmacists' Association, held at the Queen's Hotel on October 8. Messrs. H. C. Browne, G. A. Harmer, W. Price, F. Temple, and D. Marchant (Hon. Secretary) were also present. The President referred to the death of Mr. J. Senior, one of the founders of the Association, and the Hon. Secretary was instructed to write a letter of condolence to Mrs. Senior and family. Correspondence was read relating to Insurance and sanatorium benefit, including an account of two meetings of the chemists in the county borough of Eastbourne, at which a tariff of medicines and other accessories of domiciliary treatment was agreed to. The Hon. Secretary also read a letter from the Chemists' Defence Association, confirming the legality of Messrs. Woodward's claim to trade-mark rights in the words "Gripe Water." One member stated that he had sold a gripe-water of his predecessor for eighteen years, which he believed originated in a neighbouring town some fifty years ago. Several other legal points were explained by the C.D.A., and it was thought to be a most valuable institution. Mr. Walter Price was nominated as Divisional Secretary. The Hon. Secretary pointed out the inconvenience of starting the session with the New Year, and it was agreed that the next meeting should be the annual one, and that nine months' subscription should be paid at the beginning of 1913, so that the session should thenceforth start in October. It was resolved that members of the Insurance Committee should be members of the Association's Executive.

Forfarshire.—Those present at the mass meeting held in Dundee on October 9 were Messrs. J. H. Thomson (in the chair), H. J. Hunt, C. Stephen, T. S. Peebles, G. J. Lindsay, Wm. Walker, C. Cummings, Wm. Cummings, P. Mitchell, W. Livie, C. Young, Wm. Sime, J. Peacock, John Anderson, jun., John Anderson, sen., D. M. Jamieson, C. Duncan, G. S. Brown, J. Hodge, H. Geake, D. J. McKinnon, J. W. Robertson, J. Williamson, J. Thomson, J. Doig, Wm. Doig, W. C. Ramsay, L. P. Michie, J. R. Milne, J. P. Ferrier, J. Duff, J. Gray, W. A. Ramsay, A. Y. Barrie (Dundee), Chalmers (Newport), Burrell, A. Davidson, and A. W. Ritchie (Montrose), Troup (Monifieth), Petrie (Blairgowrie), Bain (Forfar), Skinner (Broughty Ferry), Adam and McGlashan (Alyth), Hutton (Brechin), F. W. Bennett, D. H. Burn, H. Duncan, J. Jack, J. Robertson, J. S. Whyte (Arbroath), and G. M. Kemp (Boots, Arbroath). After speeches by Messrs. Rutherford Hill, Bennett, and J. H. Thomson on Insurance Act pharmacy, it was agreed that a Central Committee be appointed to act for the three panels (Dundee, Arbroath, and Forfarshire), the following gentlemen being elected: Messrs. J. H. Thomson, C. Stephen, T. S. Peebles, F. W. Bennett, A. Davidson, with Mr. H. J. Hunt and Mr. G. J. Lindsay to act as joint-secretaries.

Glasgow.—Under the auspices of the Glasgow and the West of Scotland Chemists' Association a very large meeting of chemists was held in the Masonic Hall, Glasgow, on October 10, Mr. J. H. Hart presiding, when Mr. J. Rutherford Hill and Mr. J. P. Gilmour explained the position of pharmacists under the National Insurance Act. Mr. Hill reviewed the whole question, and detailed the steps which led up to the present position, urging the need for absolute unanimity. Mr. Gilmour dealt more particularly with his work on the Advisory Committee. A number of questions were answered, and Mr. Hill and Mr. Gilmour most cordially thanked. Messrs. Guthrie, Lennox, Hendry, Russell, and others took part in the discussion. Mr. W. L. Currie, as a member of Council, referred to the organisation of the district, and suggested that this Association take steps to ensure that no individual act in Insurance matters without consultation with headquarters.—The social gathering of members of the Association, arranged by Mr. Kitchin (Secretary of the Athletic Section) and the Committee, which was held in the Charing Cross Halls on Tuesday evening, October 15, was the most successful gathering of the Association which has been held for years. The President welcomed the guests, and hoped that they would have a "jolly good time." The first part of the evening's programme was musical, and to it Miss Currie, Miss Stirling, Mr. McAdam, and Mr. Horace Gray contributed. Their singing was much enjoyed, and they were warmly thanked. During an interval the floor was cleared for dancing, and when that commenced "all went merry as a marriage bell," and, saving duets by Miss and Master Hyslop, nothing except terpsichorean delights carried the company on to "the wee sma' 'oors ayont the twal," as to which there is neither "P.B." nor "B.P." opinion.—The Association's syllabus for the session includes the following items: "Marvels of Light and Sight," by Mr. T. S. Baird, F.R.M.S.; "A Night with Omar Khayyam," by Mr. J. M. Turner; "Some Experiments with Liquid Air," by Mr. Malcolm M. Irvine, Ph.C.; and "Expeditious Counter Methods of Drug-testing for the Busy Pharmacist," by Mr. J. Ramsay, Ph.C.

Grimsby.—A meeting of the Grimsby Pharmacists' Association was held at the Oberon Hotel on October 7. Mr. Cor. Willson (President) was in the chair, and the other members present were Messrs. Sneath, Fletcher, H. W. Colley, Robinson, R. C. Johnson, and C. H. Ashton (Hon. Secretary). The Secretary explained that the meeting of district pharmacists had been abandoned for the present. On the suggestion of Mr. H. W. Colley, a meeting is to be called in connection with the fixing of a standard rate of charges for drugs. It was decided that the Association should become affiliated with the Grimsby Chamber of Trade. The following were appointed Divisional Secretaries: Grimsby, Mr. H. W. Colley; Louth, Mr. F. W. Dennis; Horncastle, Mr. F. W. Heely; Brigg, Mr. Watson. It was decided to ask the Town Council if it is going to supply the notices regarding meal-times and assistants' half-holidays. New members elected were Mr. Bellamy, Mr. Dennis, and Mr. Street (of Louth), and Mr. Wray (Grimsby).

Huddersfield.—The Huddersfield Chemists' Association held its annual meeting at the Queen Hotel on October 15,

Mr. J. B. Wood presiding. There was a very large attendance. The report of the Secretary (Mr. J. H. Cooper) showed an access of members. The following new members were admitted: Messrs. J. H. Cockroff (Huddersfield), S. T. Shaw (Golcar), and G. A. Stocks (Brighouse). It was intimated by Mr. Broadbent (Honley) that an invitation had been given by the Principal of the Technical College to members to view the equipment provided for the technical studies of students in pharmacy. Mr. J. B. Wood was re-elected President, and the Organisation Committee was appointed, again with Mr. J. H. Cooper as Secretary.

Ilkeston.—The quarterly meeting of the Ilkeston Division and District Pharmacists' Association was held at the Rutland Hotel, Ilkeston, on October 9, the President, Mr. W. Taylor (Heanor), in the chair. Other members present were Messrs. Flemons, Gelsthorpe (Long Eaton), Jackson (Sandiacre), Bell (Stapleford), Dyson, Eden, Pratt (Ilkeston), Benton, Rhodes (Heanor), Daykin, Heaton (Ripley), Casson (Somercotes), Hitchcock (Greenhill Lane), and the Hon. Secretary, C. W. Ridyard (Codnor). Mr. W. Elmitt (member of the Derby Insurance Committee) was present, representing the Derby Association. A new member, Mr. J. Gabbitas (Swanwick), was elected. Mr. C. W. Ridyard was nominated as Divisional Secretary. The report of the Organisation Committee was received, and the names nominated for the District Insurance Committees—Messrs. Gelsthorpe, Jackson (Long Eaton area), Dyson, Fletcher (Ilkeston), Taylor (Heanor), Wain, Heaton (Ripley), Casson, Hitchcock (Alfreton)—approved. The Secretary was instructed to write to the Secretary of the Derbyshire Insurance Committee. After discussion it was decided that the Chesterfield Pharmacists' Association be invited to join with the Ilkeston and Derby Associations in arranging a meeting for the whole county at Derby, and that, subject to the approval of the Chesterfield Association, the Local Associations Officer be asked to convene the meeting for that date in the name of the three Associations.

Ipswich.—The annual meeting of the Ipswich Chemists' Association was held at the Great White Horse Hotel on October 10. The Vice-President (Mr. J. C. Wiggin) was in the chair. The balance-sheet was presented and adopted, and a vote of thanks was passed to the President, Vice-President, and Secretary for their services during the past year. All the officers were re-elected. A discussion then took place as to the position of pharmacists under the National Insurance Act.

Liverpool Optical.—The annual meeting of the Liverpool Optical Society was held on October 9. Mr. C. Holland was elected President, Mr. Chas. Hare (Birkdale) was re-elected a Vice-President, and Mr. L. M. Parry Hon. Secretary. The President, in his inaugural address, touched upon such questions as advertisements offering "free" eye-testing and the abuse of the eye-departments of hospitals. Mr. Parry reported that the membership of the Society is now forty.

London.—Mr. J. Keall (Wandsworth) presided at a meeting of the pharmacists of Lambeth, Battersea, and Wandsworth held at the Oriental Café, Clapham Common, on Wednesday evening, October 9, for the purpose of forming the South Western (of London) Pharmacists' Association. Mr. W. E. Mason (Brixton) acted as Secretary. About twenty-three pharmacists were present, and letters from fifteen others were received. It was decided to form an Association, and the following gentlemen were elected as a Provisional Committee: *Chairman*, J. Keall; *Secretary*, W. E. Mason; *Lambeth*, H. R. Mitchel, J. W. Douglas, and W. E. Mason; *Battersea*, W. H. Goy and J. B. Brook; *Wandsworth*, J. Keall and T. Evans. Mr. G. A. Tocher (Catford) gave the meeting information about association work, and a discussion on the Insurance and Shops Acts followed. It was agreed that every registered pharmacist in the three districts be invited to a general meeting for the purpose of electing President and officers for the current year. An Organisation Committee was formed on Tuesday evening, October 15, and a date in the last week of the month was fixed for the general meeting.

Mid-Lanark.—Mr. J. Rutherford Hill addressed a meeting of the Mid-Lanark Pharmaceutical Association at Hamilton on Wednesday, October 16, on Insurance Act matters.

Newcastle-on-Tyne.—The seventeenth annual meeting of the Newcastle-on-Tyne Pharmacists' Association was held on October 9 at the Hôtel Métropole, Clayton Street West. Mr. Geo. Weddell presided over a good attendance, which included the following: Messrs. J. Gibson, R. Wright, T. M. Clague, W. Kerse, F. Gilderdale, W. Pescod, R. Cubey, J. Dakers, T. Wray, J. Graham, E. Dean, W. Buckley, J. Park, C. Russell, T. H. Fleming, G. Foggan, H. W. Noble, R. U. Low, J. F. Simpson, J. Crake, J. Doig, D. J. Weddell, Todd, Rutherford, A. D. Wyllie, Strother, E. A. Rowbottom, and C. E. Layne. It was decided to adopt the recommendations of the Local Associations Officer regarding the National Insurance Act. Messrs. G. Weddell and G. Foggan reported on their visit to Edinburgh as delegates to the British Pharmaceutical Conference. The Treasurer (Mr. Kerse) presented his financial statement, which showed a balance in hand of 4*l.* 9*s.* 8*d.* The report of the Secretary (Mr. Pescod) stated the membership to be 110. This statement and report were received. It was resolved to send a letter of sympathy to Mrs. F. Park on the death of Mr. Park. The Executive elected for the coming year was as follows: *President*, Mr. Jas. Gibson (North Shields); *Vice-Presidents*, Messrs. W. Buckley, G. Foggan, H. W. Noble, C. Russell, R. Wright, and T. H. Fleming; *Auditors*, Messrs. G. Whitehead and W. Atkins, re-elected; *Treasurer*, Mr. W. Kerse, re-elected; *Hon. Secretary*, Mr. W. Pescod, re-elected; *Council*, Messrs. T. M. Clague, R. Cubey, E. Dean, W. R. Gray, J. F. Simpson, R. McClumpha, J. Crake, and J. Graham, B.Sc.; *Hon. Solicitor*, Mr. C. E. Layne; *Organisation Committee*, Messrs. R. Wright, F. Gilderdale, C. Russell, T. H. Fleming, and the Divisional Secretaries. Mr. Gibson delivered an optimistic address, in the course of which he recommended everyone to put the best side of his personality into his business, and success would follow.

Newport (Mon.).—A meeting of the Newport (Mon.) Pharmacists' Association was held on October 9, the President (Mr. Gratte) in the chair. There were present Messrs. Phillips, Menhennick, Shelley, Williams, Findlay, Paine, Giles, Lewis, Badgett, and Thomas (Cwmbran). A discussion took place on Health Insurance matters. Mr. Lloyd Jones having resigned, Mr. T. J. Badgett was appointed Hon. Secretary.

North Staffs.—The first meeting of the season of the North Staffordshire Chemists' Association was held at the Roebuck Hotel, Stoke, on October 10. There were present Mr. T. C. Cornwell (President, in the chair), Messrs. W. H. Kemp (Treasurer), T. Bentley (Secretary), Weston Poole, J.P., W. D. Edge, Edmund Jones, J. B. Blades, J. H. Waldron, G. Brown, A. P. Tiley, F. A. Bloor, Potter, J. Tirrell, A. C. Hill, A. Fernley, H. A. Blades, T. Charles, J. A. Dale, G. R. Hankinson, W. Tipper, F. F. Graham, S. G. Challinor, E. Corner, G. Cousins, and A. G. Cope. The meeting was called to discuss with Mr. W. J. Uglow Woolcock (Local Associations Officer) the organisation of North Staffordshire in view of the National Insurance Act. Mr. Woolcock, however, was unable to attend, but Mr. F. J. Gibson (Wolverhampton) addressed the meeting. A discussion followed, lasting over three hours. Votes of thanks concluded the proceedings.

Nottingham.—A social meeting opened the winter session of the Nottingham and Notts Pharmaceutical Association at the Victoria Station Hotel on October 16. There was only a moderate attendance owing to the wet evening. Among those present were Messrs. C. F. Carr (Vice-President), A. Middleton (Treasurer), T. Freeman (Secretary), C. Bolton, C. E. Reynolds, H. P. Middleton, W. Gill, and H. C. Prince. Mr. Carr introduced the subject of National Health Insurance, which gave rise to a good discussion.

Rochdale.—Twenty-two pharmacists of the Rochdale and District Association assembled in the Reform Club, Rochdale, on October 15, to hear an address by Mr. R. L. Gifford on the National Insurance Act. He said the schedule of drugs and prices, he had no doubt, would be acceptable to all the pharmacists of the country. Councillor E. Thomas proposed a vote of thanks to Mr. Gifford.

Sheffield.—At a meeting of the Council of the Sheffield Pharmaceutical and Chemical Society the following officers were elected: *President*, Mr. J. F. Eardley; *Vice-Presidents*, Messrs. J. Evans and H. G. Williams; and *Hon. Secretary*, Mr. J. Gilbert Jackson. Mr. H. Anteliffe was appointed Chairman of the Local Organisation Committee, with Mr. A. H. Culverhouse as Secretary.

Stockport.—The first meeting of the session of the Stockport Pharmacists' Association was held on October 9 at Crossley's Café. The following were present: Mr. Gee (President), Messrs. Bowden, Forbes, Royle, Royse, Taylor, Watson, and Mills. A syllabus was arranged for the ensuing session, and it was decided to hold the annual dinner in November.

Mexican Chicle.—The quantity of chicle exported from Mexico during the fiscal year ended June 30, 1911, was 3,208,160 kilos., of which 1,503,123 kilos. went to the United States and 1,184,065 kilos. to Canada, the rest going to Germany, France, and British Honduras. The gum is the product of the chicle-tree (*Achras Sapota*), which is found in the southern and eastern parts of the republic.

FESTIVITIES.

Bolton Pharmacists' Association.

The annual dinner of this Association was held on October 9 at Collinson's Café, when a very enjoyable evening was spent. After dinner and the toast of "The Pharmaceutical Society," an adjournment was made to the smoke-room for cards, while the dining-room was being cleared for music. The health of Mr. W. R. Blain, the new President, was proposed later on.

Oldham Pharmaceutical Association.

The session of this Association commenced on October 8 with a social evening at the Café Monico. Mr. E. H. Holden presided over a fairly good attendance. Entertainment was provided in the form of music, dancing, songs, and recitations, Mr. F. Newby being the pharmaceutical contributor, his speciality being recitations in "the dialect." Refreshments were served about 9 P.M., and thereafter cards and dances filled in the rest of the evening.

West Ham Association of Pharmacists.

The tenth annual social evening of this Association was held on October 10 at Earlham Hall, Forest Gate, E., when a party of members and friends enjoyed an evening of whist. Twenty-four games were played, Mr. J. E. Evans (President) acting as M.C. Refreshments were served during the interval. Souvenirs were given to the players with the highest scores, also to the lady and gentleman who made the score nearest to 151. The result was: *Ladies*—(1) Mrs. Milward, (2) Miss Willis, and (3) Mr. Thomas (playing for lady); *Gentlemen*—(1) Mr. Howes, (2) Mr. Adpar Jones, and (3) Mr. Pickering.

Leeds Chemists' Association.

The new session was inaugurated on October 16, when a large company gathered at the Great Northern Station Hotel, under the chairmanship of the President (Mr. S. R. Mundell), on the occasion of a smoking-concert. Among those present were Messrs. F. Pilkington Sargeant, J. H. Beacock, J. Russell, R. Lister, R. Milestone, G. Hayes, C. H. Milburn, G. W. Overend, A. Rothstein, H. Gilleghan, E. G. Burdy, C. E. Marriott, J. R. Kirk, W. C. C. Taylor, A. Riley, F. Fearnley, E. Brownhill, C. H. Atkinson, Hudson, A. Hartley, F. Lawrence, W. Johnson, D. E. Creasey, P. G. Shaw, F. Savage, A. Winterbottom, R. G. Shaw (Hon. Secretary), J. Rhodes (Mirfield), S. N. Pickard (Pudsey), R. Broadhead, T. Shooter, and H. S. Waite. The President opened the proceedings, and expressed his satisfaction at the prospect of a successful session, particularly as this will be the jubilee season of the Association—an event which will be celebrated at the annual dinner on November 6 and on November 20, when Mr. G. Ward, F.I.C., and Mr. E. Yewdall will give a "Fifty Years' Retrospect." An excellent programme of music was contributed to by Mr. Wyce (baritone), Mr. E. R. Broadhead (musical monologue), Mr. Beevers (humorist), Mr. Thorp (bass), Mr. J. C. Bramley (piano), Mr. C. A. Pounder (piano), Mr. Robb (tenor), Mr. Fred T. Dyall (bass), Mr. Parker (humorist), Mr. Soar (tenor), Mr. A. Baxter, Mr. J. W. Galt (tenor), Mr. Parks (humorous monologue), and Mr. Cattel (humorist).

An Anniversary Dinner.

The annual dinner of Messrs. John Bell & Croyden, Ltd., was held on October 12 at the Grand Café Marguerite, Oxford Street, London, W., on the fourth anniversary of the amalgamation of the businesses of John Bell & Co. and Croyden & Co. The company, numbering thirty, was under the presidency of Mr. John D. Marshall, the managing director, who was supported by Messrs. J. R. Wretts, Dick, and Hensman. The loyal toasts having been honoured, letters were read from Messrs. Walter Hills, Stuart Hills, and E. W. Lucas regretting their absence. Mr. Marshall, in proposing "The Firm," referred to the loyal feelings which existed among all the members of the staff, and said such co-operation is essential to ensure the firm retaining and enhancing the present reputation of the business. Mr. J. R. Wretts, proposing the toast of "The Staff," referred to the extension of the present pharmacy to double the original size, and especially to the growth of the sterilising department, which is in charge of Mr. James Lilly. The toast was responded to by Mr. Lilly and Mr. Harold Dundas. Mr. Hensman proposed the health of Mr. J. D. Marshall, the toast being enthusiastically received with musical honours. A musical programme was also carried out, songs being contributed by Messrs. J. D. Marshall, Goodwin, Humphries, Inkpen, Manson, Dundas, and Hartridge, a duologue by Messrs. C. Lilly and Percy Shinn, and pianoforte solos by Messrs. A. D. Dick and F. H. Quadling, who with Mr. Inkpen acted as accompanists.

Manchester Pharmaceutical Association.

Fully one hundred ladies and gentlemen attended the dinner and concert with which this Association opened the session on October 9 at the Grand Hotel, Aytoun Street, Manchester. An excellent entertainment had been provided, interspersed with toasts and speeches, but the feature of the evening was the

Presentation to Mr. G. S. Woolley

of a silver loving-cup on the completion of twenty-one years of office as President of the Association. Mr. Woolley unfortunately was prevented by indisposition from being present, but the gift was accepted on his behalf by his son, Mr. E. J. Woolley, "with the greatest gratitude," the words which his father himself had used. The President (Mr. J. C. Kidd), in making the presentation, read Mr. Woolley's first speech, made in 1891 on his election to the office of President, and expressed the opinion that the hopes then entertained had been fully realised in the present healthy state of the Association. Mr. Rymer Young recalled Mr. Woolley's hospitality to him as a student in London. Mr. Kirkby said Mr. Woolley's official connection with the Association dated from 1868, when he was made Treasurer, and that of his father's service dated from 1842, when Jacob Bell formed a branch of the Society in Manchester. Mr. Woolley, he said, has always been characterised by intense loyalty to his colleagues. Mr. C. A. Johnstone suggested that a permanent record of Mr. Woolley's service might take the form of a scholarship or the establishment of permanent headquarters for the Association. Mr. F. W. Bates proposed the toast of "The Pharmaceutical Society," and said that although Manchester had had a difference with officials at headquarters, it had made the protest and, having done so, that matter was ended, and Manchester is as anxious as London to work for the good of the whole craft. Mr. Rymer Young said that but for the vigilance of the Society and its officers pharmacy would have been extinguished in the recent negotiations over the National Insurance Act. The Act had given chemists a status as dispensers of medicine hitherto denied them.

Chemists as Dispensers.

The toast of "The Manchester Pharmaceutical Association" was proposed by Mr. Walter Davies (Chairman of the Manchester Insurance Committee), who urged chemists to set their house in order at once and to work on the assumption that the doctors are going to work the National Insurance Act. He asked if the Association is able immediately to work the whole area in the interests of the Act, and, if not, to set about this at once, and map out every shop in the district with the population which it would serve, enlarging those areas in sparsely populated districts where it is not possible to support a chemist. Chemists must prove to the authorities and to the nation not only their skill as dispensers, but also their ability to work the Act efficiently, and thus make themselves so essential to the scheme that there would be no danger of the dispensing reverting to medical men. His only fear is lest chemists should fail to do this. He counselled them not to worry for the present about prices, or try to squeeze the Government. In three years they would have an established position, and their representatives would be able to command attention. Mr. E. H. Blackburn, who responded, assured Mr. Davies that the Association, through its Council and its Insurance Committee, would carry out his suggestions at once. The toast of "The Visitors," given by Mr. A. C. Vallance, was responded to by Mr. J. W. Gill, the President of the Salford Pharmacists' Association.

Athletics and Sport.

Edinburgh Chemists' Golf Club.—The Autumn Handicap competition for Club prizes was played over the "Cramond Brig" golf course, with the following result: (1) J. Noble, (2) A. J. Clark, (3) Geo. Baxter. Best actual score, Wm. Gibb.

Sheffield Chemists *v.* Y.M.C.A.—This football match was played on the Chemists' ground, Millhouses, on October 10, the game resulting in a draw of one goal each. The Chemists had the advantage of the visitors, but failed in front of the goal. However, the Y.M.C.A. opened the score during one of their few incursions into the home half. Gregson equalised for the Chemists just before the end of the game.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., October 17.

A QUIETER feeling is evident on the drug and chemical markets, the troubles in the Near East and the obscure political outlook naturally restricting the course of business. A fair number of price alterations are chronicled, including an advance of 4*d.* in cocaine, due to dearer raw material. Menthol has had a further spurt on spot, with quite retail buying. Aloin is dearer, and ergot has further advanced, offers being few. Balsam tolu is tending easier. Chamomiles remain firm for good quality, which is scarce. Cod-liver oil is dull, and rather easier. Glycerin may be affected should the war in the Balkans develop. Lemon oil is cheaper. Opium is at a standstill, the outlook being unsettled. Potash and soda chlorates are unchanged for next year's delivery, but potash permanganate is 20*s.* per ton dearer. Vanillin may advance owing to the dearness of clove oil. Quicksilver has further eased in second-hands. Quinine is perhaps a shade firmer. The Bank rate was raised to 5 per cent. to-day. The principal changes has been as under :

Higher	Firmer	Easier	Lower
Aloin	Coriander seed	Ammonia sulphate	Elemi
Arsenic	Senna (Tinn.)	Balsam tolu	Jalap
Canary seed		Cardamoms	Linseed oil
Cocaine		Cod-liver oil	Quicksilver (sec. hands.)
Ergot		Copper sulphate	Turpentine
Menthol		Kola	
Orris (Mor.)		Lemon oil	
Potass. permang.		Senna-pods (T.V.)	
		Shellac	

Cablegram.

New York, October 16.—Business in drugs is good. Opium is quiet at $7.50 per lb. for druggists' by single cases. Peppermint oil is easier at $2.80 per lb. Senega is dearer at 63c. per lb. Guarana is firm at $2.35. Ipecacuanha is scarce at $2.35 for Cartagena. Hydrastis is easy at $4.50, and cascara sagrada is quiet at 8c. Curaçao aloes is easier at 10c. Buchu is firm at $1.68 for round, and copaiba is steady at 47c. for Central and South American.

London Markets.

Acetates.—For some months past there has been a shortage of acetate of lime. Both in America and Europe manufacturers have been unable to secure as much as was needed for their regular manufacturing operations, and from time to time parcels changed hands at a premium. Twelve months ago the price in large shipments c.i.f. European ports was 10*l.* to 10*l.* 5*s.* per ton, and although this price was withdrawn and a nominal figure 25 per cent. higher was mentioned, prices for acetic acid and certain other derivatives were based upon the lower purchase price of acetate of lime, and have experienced a gradual advance as supplies of the cheap lime became exhausted. For contracts over 1913 an advance of 25 per cent. has been paid for large quantities, and consequently a corresponding advance must be looked for in those products of which it forms the raw material. The value of *Acetic acid* will be : for the 80 per cent. in casks returnable, ex stock London, 30*l.* per ton ; glacial 98 per cent. 40*l.* per ton, in carboys inclusive, 99 per cent. B.P. 41*l.* free quay London, with other strengths corresponding. The demand for *Acetone* is very large, and prices must be expected to range over 80*l.* per ton on the basis of the raw material. *Acetate* of soda is at present cheap and out of all proportion to the acetate of lime with which the price ought to be in sympathy, inasmuch as certain factories have the opportunity of making one or the other as alternatives. The present price of 15*l.* ex wharf London would need to advance fully 25 per cent. to be in accord with the price of lime.

Aloin is dearer, English makers' prices being 3*s.* 9*d.* per lb., an advance of about 4*d.*

Anise Oil (Star).—The spot price for "Red Ship" brand remains at 6*s.* 9*d.*, and to arrive 6*s.* 1*d.* c.i.f. is quoted for October-December and 6*s.* 3*d.* c.i.f. for October-November shipment.

Arsenic has advanced a further 1*s.* per cwt. for best white powder, to 24*s.* in barrels and 25*s.* in kegs.

Balsam Tolu.—Owing to fair arrivals on the New York market, prices there are easier at from $1.50 to $1.60 per lb. In the drug-auction six cases offered and were bought in at the nominal figures of 6*s.* 6*d.* to 7*s.* for slightly drossy on surface to fair hard in large tins, no response being made to a suggestion of 6*s.* 3*d.* per lb. Privately Hamburg quotes 5*s.* per lb. c.i.f. London for a parcel just arrived, and rather less for a five-case lot.

Bergamot Oil remains unchanged, new crop offering at 27*s.* per lb. c.i.f.

Camphor (Refined).—Sellers of Japanese refined slabs quote 1*s.* 5¼*d.* per lb. c.i.f. for November-December shipment, and 1-oz. tablets at 1*s.* 6*d.* c.i.f.

Canary-seed is again dearer. Holders now ask 62*s.* 6*d.* per qr. for Turkish on the spot, and 70*s.* for good Morocco.

Chamomiles are firm, with good white flowers scarce, the value of such being 90*s.*, fair 77*s.* 6*d.*, and for common mixed 70*s.* Good flowers are likely to appreciate in value, as no more of this description appear to be obtainable in Belgium.

Cinchona.—At the Amsterdam auction to be held on November 7, 11,189 packages Ledgeriana, etc., 3,452 packages Hybrid, and 1,762 packages Succirubra, totalling 16,465 packages, will be offered. The shipments from Java to Europe during the first half of October amounted to 738,000 Amst. lb., against 559,000 A. lb. in 1911 and 629,000 A. lb. in 1910.

Citric Acid is unaltered at 1*s.* 4¾*d.* for foreign and 1*s.* 5*d.* for English.

Citronella Oil.—Ceylon is quoted on spot at 1*s.* 6½*d.*, and to arrive at 1*s.* 4*d.* c.i.f.

Cocaine.—The higher prices ruling for crude have brought about an advance of 4*d.* per oz. for hydrochloride, which is quoted by several makers at 6*s.* 5*d.*, less 5 per cent., for 175-oz. lots on contract. There is some confusion as to prices, one maker quoting 6*s.* 7*d.* for this quantity.

Cod-liver Oil is a slack market, and, if anything, prices are a shade weaker ; offers of 67*s.* c.i.f. would be submitted in one quarter, and others still ask 68*s.* to 70*s.* c.i.f. terms. Our Bergen correspondent writes that the market is rather weak, and finest non-congealing Norwegian oil has been sold at 67*s.* per barrel c.i.f. terms.

Copper Sulphate is easier, the usual Liverpool brands offering at 25*l.*, and January-April 25*l.* 7*s.* 6*d.* to 25*l.* 12*s.* 6*d.* per ton.

Coriander-seed is slightly dearer at 11*s.* per cwt. for wormy Morocco and 11*s.* 9*d.* for sound old crop.

Cream of Tartar is firm and unaltered at 89*s.* for 98 per cent. powder and 87*s.* for 95 per cent.

Ergot is dearer, with very few offers obtainable. Russian has sellers at 4*s.* 6*d.* spot, and to arrive 4*s.* 6*d.* c.i.f. represents the values. Sound Spanish is said to have sold on the spot at 6*s.* In the drug-auction four bags old wormy sifted Russian sold without reserve at 4*s.* per lb. Several defaults have taken place.

Gentian.—To arrive new crop is quoted 24*s*. 6*d*. per cwt. c.i.f., and on the spot 26*s*. is wanted.

Glycerin.—Prices remain unchanged, but the tendency is firmer owing to the hostilities in the Balkan States. This firmness applies to dynamite qualities only, and is not reflected in the chemically pure. It is said that the existing large stocks of dynamite description prevent buyers from operating, and the outlook is somewhat perplexing.

Lemon Oil.—Prices are cabled easier from Sicily, new crop for January shipment offering at 7*s*. per lb. c.i.f., January-March 6*s*. 9*d*., and March-July 6*s*. 6*d*. In the drug-auction two coppers of good seconds sold at 5*s*. 4*d*.

Lemongrass Oil is quiet at $4\frac{1}{2}$*d*. per oz. on spot, and $3\frac{5}{16}$*d*. c.i.f. terms.

Mandarin Oil.—This is quoted 25*s*. per lb. c.i.f., but is likely to be dearer.

Menthol.—Business has been done this week at from 32*s*. to 33*s*. on the spot for Kobayashi in quite retail quantities. For October-November shipment Kobayashi in combination with oil has been sold from second-hands at 32*s*. c.i.f., and in crystals alone at 26*s*. c.i.f. The *Mavis* from Hamburg has brought 25 cases, the *Candia* from Yokohama five cases, and the *Auk* from Hamburg five cases. In the drug-auction five cases good white Suzuki crystals, part slightly blocky, sold at 31*s*. per lb. At the close 32*s*. 6*d*. to 33*s*. is quoted for Kobayashi on spot, and for November-December 25*s*. 3*d*. c.i.f. has been paid; also combined with oil at 30*s*. c.i.f.

Milk-sugar is steady, good white powder offering at 61*s*. on the spot.

Morphine.—Makers' price remains unchanged at from 10*s*. 3*d*. to 10*s*. 6*d*. for hydrochloride, as to quantity.

Opium.—The future position of the market greatly depends on the developments in the Balkan States, and it is impossible to say whether a decline or advance may be expected. Some say that the war will make it cheaper owing to the desire to realise stocks. Business is said to have been done for American account at 20*s*. 3*d*. c.i.f. for 11 per cent., and there are further buyers at 19*s*. 6*d*. The spot value is 22*s*. for this test

A Smyrna correspondent writes on October 4 that the sales this week amount to 136 cases, 85 of which for America, 24 for England and the Continent, and the balance for account of Interior and local speculators. Rain is now needed for the early autumn sowings, but it does not come, so the longer it delays the stronger our market will become. Our quotations to-day are firm as follows: Current mixed t.q., 17*s*. to 19*s*.; Karahissar mixed t.q., 19*s*. to 21*s*.; extra selected Karahissar, 19*s*. 6*d*. to 21*s*. 6*d*.; Yerlis, as to quality, 19*s*. to 23*s*.; and very fine extra Yerli, 24*s*. to 25*s*. The arrivals in Smyrna are 1,614 cases, against 767 at same date last year.

A Constantinople correspondent writes on October 12 that the sales amount to four cases druggists' at from 280 to 290 ptrs., 12 cases soft shipping and Malatias at 302 to 315 ptrs.; market is firm in spite of the gravity of the political situation. Several centres have wired this week that the autumn sowing period is over, but the news is too serious to be accepted as definite. We believe the peasants will endeavour to sow on the first favourable occasion, but much will depend on the weather. It will be some time before authentic information is available on this point. The arrivals in Constantinople amount to 1,850 cases, against 903 cases; these consist of 981 cases druggists', 588 soft, and 281 Malatias, against 606, 285, and 12 cases respectively in 1911; the stock is 1,371 cases, against 508, and consists of 682 druggists', 500 soft, and 189 Malatias, against 299, 82, and 27 respectively in 1911.

Orris.—The spot supply of Florentine remains quite inadequate, judging from the number of inquiries, and consequently very high prices are being quoted by those who have any. To arrive, 56*s*. to 57*s*. per cwt. c.i.f. is quoted for good sorts, according to shipper, and 66*s*. for "extra" selected. In the drug-auction nine bags plump Mogador sold at 40*s*. per cwt.

Peppermint Oil.—The scarcity of H.G.H. is unrelieved, but shipments are due shortly; 15*s*. 9*d*. is the price for a case or two on spot; October shipment from New York is offered at 15*s*. to 15*s*. 3*d*., London terms, and more distant shipment at 14*s*. 9*d*. Tin oil is quiet at from 11*s*. 9*d*. to 12*s*. Japanese dementholised is rather firmer, with 6*s*. 2*d*. to 6*s*. 3*d*. paid on spot for Kobayashi—rather buyers.

Potash Chlorate.—The Convention of makers have issued their scale of prices for 1913 delivery, but they are unaltered for both potassium chlorate and sodium chlorate. The quotation for ton lots is $3\frac{3}{4}$*d*. per lb.; between one and five tons, $3\frac{5}{8}$*d*.; and five-ton lots, $3\frac{9}{16}$*d*. per lb., c.i.f. London or any port. The London spot price is $3\frac{3}{4}$*d*. net for crystals, and $3\frac{3}{4}$*d*. for powder.

Potash Permanganate has advanced 20*s*. per ton, the price for small crystals being 38*s*. per cwt. ex wharf, medium crystals being 2*s*. 6*d*. and large 9*s*. extra.

Quicksilver.—The principal importers' price remains unchanged at 8*l*. per bottle, but second-hands by Wednesday had receded to 7*l*. 13*s*. 6*d*.

Quinine.—The second-hand market is not so depressed as last week, inasmuch as several sellers ask $8\frac{1}{2}$*d*. for the usual German brands and $8\frac{1}{4}$*d*. for Amsterdam and Java. Rather more inquiry is reported.

Shellac is dull and a trifle easier, fair TN orange on spot offering at 69*s*., November-December shipment of TN at 70*s*., and AC Garnet at 64*s*. 6*d*. c.i.f.

Spices.—At auction 215 bags wormy rough Calicut *Ginger* sold without reserve at 26*s*.; washed rough, slightly wormy, was bought in at 37*s*. *Cloves* were not offered; privately $8\frac{1}{2}$*d*. is the value of Zanzibar on spot, and sellers of October-December delivery at $8\frac{3}{8}$*d*. and October-December shipment at $8\frac{1}{2}$*d*. c.i.f. d.w. At auction 54 packages W.I. *Nutmegs* sold steadily, and 8 packages W.I. *Mace* sold at from 2*s*. 1*d*. to 2*s*. 2*d*. for red, and 1*s*. 10*d*. to 2*s*. 1*d*. for broken; 46 bags Ceylon *Pepper* were bought in at $5\frac{3}{8}$*d*. for good; privately the spot price of fair Singapore is $5\frac{5}{8}$*d*., and November-December shipment at $5\frac{3}{16}$*d*.; no *White* pepper offered at auction; privately, sellers quoted fair Singapore at 9*d*., and fair Muntok at $9\frac{5}{16}$*d*.; for arrival, Singapore for November-December shipment has been sold at $8\frac{9}{16}$*d*. c.i.f. and buyers.

Tartaric Acid is in rather more inquiry at 1*s*. 1*d*. for foreign and 1*s*. $1\frac{1}{2}$*d*. for English.

Turpentine closes cheaper at 30*s*. 6*d*. per cwt. for American on spot and 30*s*. 9*d*. for October-December shipment.

Valerian.—New-crop Belgian for shipment within a month is quoted at 30*s*. per cwt. c.i.f.

Vanillin.—Owing to the high price of clove oil, it is quite possible that the Convention of makers (which was formed about two years ago) will raise their prices when new contracts are considered.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, E.C., October 17.

New goods only were offered at the auction to-day, of which a larger proportion than usual found buyers. Cape aloes was about steady, all the offerings finding buyers. Balsam tolu is tending easier. Sumatra benzoin sold at steady prices, and was in rather more demand. Buchu-leaves are quiet, but held at firm rates. Cardamoms were easier, with an absence of good pale quality, bold sizes being off colour. Calumba sold steadily, and for coca-leaves, although offered without reserve, there was no bidding. Dragon's-bood is firm. Elemi declined 10*s*. per cwt., and for ergot very high rates were paid. Honey was of practically no interest, but ipecacuanha was in good demand, the Johore all being disposed of at very satisfactory prices, and for Minas the rates were steady as compared with the previous public sale. Jalap was much lower owing to forced sales. Kola was in demand at steady prices. Aden myrrh was about 2*s*. 6*d*. per cwt. dearer for native picked, and rather higher prices were paid for Morocco orris. Rhubarb was quite neglected. Grey Jamaica sarsaparilla was steady, and for Tinnevelly senna prices were firm, with very little of good quality offered. Beeswax showed no change, no Jamaica being offered.

	Offered	Sold
Almonds	33	0
Aloes—		
Cape	60	60
Curaçao ...(bxs.)	12	0
Socotrine	44	0
Zanzibar (pkgs.)	2	1
Areca	13	0

	Offered	Sold
Asafetida	68	0
Balsam tolu	6	0
Benzoin—		
Palembang	65	19
Siam	7	1
Sumatra	117	48
Buchu	20	2

	Offered	Sold
Calumba	240	20
Cannabis indica	31	27
Cardamoms & seed	131	54
Cascara sagrada	312	132
Cinnamon oil	7	1
Citronella oil	7	7
Coca-leaves	56	9
Colocynth-pulp	16	0
Croton-seed	6	0
Cuttlefish-bone	50	0
Dragon's-blood	24	3
Elemi	30	20
Ergot	4	4
Eucalyptus oil	22	0
Guaiacum	4	0
Gum acacia	38	3
Honey—		
Cape	20	0
Jamaica	20	15
Ipecacuanha—		
Cartagena	4	*4
Johore	36	36
Matto Grosso	17	0
Minas	13	10
Jalap	32	27
Kamala	2	0
Kino	7	0
Kola	76	64
Lemongrass oil	2	0
Lemon oil ..(cprs.)	2	2
Lime-juice	16	*3
Lime oil	5	0
Menthol	5	5
Myrrh	35	15
Nux vomica	111	0
Orris (Mog.)	9	9
Papain	1	1
Rhubarb (China)	35	0
Sarsaparilla—		
Grey Jam.	9	9
Mexican	5	0
Seedlac	80	0
Senna and pods—		
Alexaudrian	53	8
Tinnevelly	471	301
Tamarinds	2	0
Tonka-beans	2	0
Tragacanth	5	5
Turmeric	202	21
Wax (Bees')—		
China	20	0
East African	18	10
East Indian	65	0
Madagascar	95	0
Zanzibar	85	0
Wax, Japan	25	0

* Sold privately.

ALOES.—Cape was in demand at steady prices, part of the offerings being more or less softish. Good hard bright firsts, Mossel Bay (20 per cent. tares), sold at 41*s*. to 42*s*.; good seconds, 39*s*.; slightly drossy ditto, 38*s*.; fair hard dullish seconds, 36*s*. 6*d*. to 37*s*.; dull, part soft, 34*s*. to 36*s*.; ordinary, part drossy seconds, 34*s*.; ordinary dull hard ditto, 32*s*. to 33*s*.; half liver colour, 26*s*. per cwt. Five cases sold without reserve at 41*s*. 6*d*. for good firsts, and 40*s*. 6*d*. for fair hard firsts. A case of fair hard hepatic Zanzibar, with excess of skins, sold at 65*s*.

BENZOIN sold at firm rates, a line of 32 cases of Sumatra selling at from 6*l*. to 6*l*. 5*s*. per cwt. for good thirds to common seconds. Four cases fair seconds with small to medium almonds and partly falsely packed ends sold at 7*l*. 10*s*., and 12 cases of good almondy seconds with part storax flavour sold at 8*l*. per cwt. Five cases of rather barky Palembang seconds sold at 57*s*. 6*d*., and 14 cases of common thirds very badly packed sold without reserve at from 35*s*. to 39*s*. per cwt. Four cases of Siam pea and bean size almonds, of good flavour, were offered and held at 27*l*.; 3 cases of bold siftings in shivery block were offered, of which one sold at 19*l*. per cwt.

BUCHU.—Quiet. Two bales of long-ovals, heavily mixed with chopped stems, sold without reserve at 1*s*. 3*d*. per lb. For good clean green round 6*s*. 6*d*. was wanted, a bid of 6*s*. 3*d*. being refused; very stalky yellow round were obtainable at 5*s*., and ovals at from 1*s*. 9*d*. to 2*s*. 2*d*. for common bronzy, with chopped stems, to fair greenish. No genuine longs offered. The *Kenilworth Castle* has brought 17 packages.

CALUMBA.—Steady; 20 bags of small to bold washed pickings sold without reserve at from 14*s*. to 14*s*. 6*d*. per cwt.; 200 bags were bought in at 10*s*. per cwt. for ordinary natural, part corky sorts.

CANNABIS INDICA.—Seventeen bales of common small and dusty East African sold without reserve at $8\frac{3}{4}$*d*.; genuine Bombay tops were bought in at 5*s*. 3*d*.

CARDAMOMS.—The quality of the bold sizes was somewhat off colour, and probably for that reason the top prices of the previous two sales were not realised, values generally being easier. Ceylon-Mysores extra bold, long pale, sold at 5*s*. 8*d*. to 5*s*. 11*d*.; bold and medium, good pale, 5*s*. 2*d*. to 5*s*. 6*d*.; ditto badly clipped, 5*s*. to 5*s*. 2*d*.; small and medium badly clipped, 4*s*. 8*d*.; tiny pale, 4*s*. 6*d*.; brown and split, 4*s*. 2*d*. to 4*s*. 4*d*.; *splits*, medium to bold, 5*s*. 1*d*.; medium pale, 4*s*. 11*d*. to 5*s*.; *seed*, 4*s*. 6*d*. for good; small to medium brown Alleppy character, 3*s*. 6*d*.

CASCARA SAGRADA sold at steady rates compared with the previous public sale, 132 bags being disposed of at from 35*s*. to 36*s*. for part coarse quill of February 1910 import, and for 180 bags of good small thin of March 1911 import 36*s*. was wanted.

CITRONELLA OIL.—Seven cases Ceylon (guaranteed to pass Schimmel's test) sold at from 1*s*. 5*d*. to 1*s*. 6*d*. per lb. without reserve.

COCA-LEAVES.—Nine bales of Truxillo sold without reserve at 7*d*. for fair greenish broken and $6\frac{1}{2}$*d*. for brown—no allowances or discount; 40 cases, mostly country-damaged Ceylon-Truxillo, were offered without reserve, but there was no bidding.

At the Amsterdam auction to be held on November 7, 1,190 packages Java will be offered.

CROTON-SEED.—Six bags were held at 80*s*. for good bright Ceylon and 75*s*. for fair rather dullish.

DRAGON'S-BLOOD.—Firm. A case of fair seedy lump, part mixed with reboiled sold at 8*l*.; two cases of ordinary seedy lump mixed with dull reboiled sold at 6*l*. 17*s*. 6*d*.

ELEMI met with a decline of about 10*s*. per cwt., 20 cases being disposed of at from 42*s*. to 43*s*. for fair white paste. In another interest 10 cases were bought in, including fair white at 52*s*. 6*d*.

EUCALYPTUS OIL.—For 6 cases containing 75 per cent. eucalyptol (Parry's analysis) a bid of 1*s*. $4\frac{1}{2}$*d*. is to be submitted. Sixteen cases of Amygdalina were offered and held for 11*d*. per lb. Privately the market remains very firm at from 1*s*. 5*d*. to 1*s*. 6*d*. per lb., as to test, which prices have been paid.

HONEY.—Only 20 packages Jamaica offered and 15 sold at 31*s*. for good palish set, 29*s*. for palish setting, and 25*s*. to 25*s*. 6*d*. for ordinary dark to darkish liquid and part setting. Twenty cases of darkish brown Cape thick liquid were bought in; a bid of 25*s*. 6*d*. is to be submitted for part.

IPECACUANHA.—The new lot of 36 bales Johore sold with good competition for the Russian market at very satisfactory prices, opening at 10*s*. (one bale only) and closing at 10*s*. 6d. per lb., a bale of siftings going at 10*s*. 2*d*. The parcel was of uniform quality, and better than previous consignments received for several years past. Ten bales of cultivated Minas sold at 9*s*. per lb., irrespective of quality, fair going at the same price as ordinary and part mouldy. Twelve bales of Matto Grosso were bought in at 10*s*. 6*d*. nominally; 10*s*. 3*d*. would have been accepted for plump root. Four bales Cartagena had been sold privately. Privately sound Minas is quoted at 9*s*. 6*d*., 3*d*. less having been refused. The *Vandyck*, from Monte Video, has brought 59 packages drugs—they are probably Matto Grosso ipecac.

JALAP.—Lower. Six bags small to medium Vera Cruz tuber (testing 6.75 per cent., and when dried 7.76 per cent. resin) sold without reserve at from $8\frac{1}{2}$*d*. to $8\frac{3}{4}$*d*. per lb. net—no allowances; a further eight bags (12.70 per cent. Harrison) sold without reserve at 1*s*. 2*d*., and 13 bales (6.24 per cent. Umney) sold without reserve at 9*d*., without discount or allowances.

KOLA.—In demand. Twenty-two bags small to medium Ceylon darkish halves and whole sold at 4*d*.; sea-damaged halves and a few whole at from 3*d*. to $3\frac{1}{4}$*d*.; 22 bags West Indian sold at from $4\frac{1}{2}$*d*. to 5*d*. for good small dried, and 14 bags sold at from $3\frac{1}{2}$*d*. for dark and mouldy, and $4\frac{1}{4}$*d*. to $4\frac{1}{2}$*d*. for fair halves, part a little dark. A further 12 bags were held at $6\frac{1}{2}$*d*. for fair halves. From Hamburg sound halves are quoted at $5\frac{5}{8}$*d*., with business thereat.

MYRRH sold at an advance of about 2*s*. 6*d*. per cwt. for old-fashioned Aden native-picked gum, 9 cases selling at from 65*s*. to 67*s*. 6*d*., 3 cases of siftings at 47*s*., and 2 cases of dust at 35*s*. per cwt. For 20 bags of small, part dusty, Somali character 50*s*. was wanted. A single bag of siftings sold without reserve at 36*s*.

PAPAIN.—A case of mouldy Ceylon realised 2*s*. per lb. without reserve.

RHUBARB.—Nothing sold in auction, although a fair selection was on offer. For medium to bold round horny High-dried, half pink and half grey and dark fracture, 1*s*. was wanted. Medium to bold round orange-coated *Wild* Shensi, with three-quarter greyish pinky fracture and one-quarter grey and dark, was also held at 1*s*.

SARSAPARILLA.—Steady. Nine bales grey Jamaica, all that offered, sold at from 1*s*. 10*d*. to 2*s*. for ordinary dark to fair quality. Five bales of the usual part chumpy Mexican were limited at 8*d*.

Senna.—Only part of the offerings of Tinnevelly sold, but prices were firm. Up to 4*d*. per lb. was paid for a bale of bold green leaf, 2¾*d*. to 3¼*d*. for fair bold partly specky, 2¼*d*. to 2¾*d*. medium green leaf, 1¾*d*. to 2*d*. small green, and 1*d*. to 1½*d*. for common small yellowish, of which the bulk was composed. *Pods* were mostly bought in, 1¼*d*. being wanted, but no buyers over 1*d*. Four bales palish flimsy Alexandrian pods sold at 6¾*d*. without reserve, and a bale of ordinary siftings also fetched 1¾*d*., without reserve. Fair clean leaf was limited at 8*d*., siftings at 2½*d*., and *pods* at from 7½*d*. to 8*d*. per lb.

Wax (Bees').—No Jamaica offered, and other descriptions were slow of sale, only 10 packages of East African changing hands at 7*l*. for fair yellow block, and 6*l*. 12*s*. 6*d*. for part dark and drossy block. Madagascar was limited at 7*l*. 2*s*. 6*d*. for rather dark, and Zanzibar block at 6*l*. 15*s*. Bleached Calcutta was limited at from 8*l*. 2*s*. 6*d*. to 8*l*. 5*s*., according to colour, Morocco at 7*l*., and good China at 6*l*. 15*s*. per cwt.

Wax, Japan.—For good white slabs 48*s*. per cwt. was wanted.

Manchester Chemical-market.

October 15.

Although there are assertions made in what ought to be responsible quarters as to the firmness in the local chemical market, this is not at all borne out by the actual fact. Business both on spot and for export is, however, quiet, and the war in the Balkans has not improved matters. But for this there would have been a very steady business, both on home and export account. Heavy chemicals are in moderate demand only. Chloride of calcium at 2*l*. 12*s*. 6*d*. to 2*l*. 17*s*. 6*d*. per ton. Aniline oil, pure, is quoted 5½*d*. per lb., and salt 5*d*. per lb. White powdered arsenic 21*l*. 10*s*. to 22*l*. 10*s*. Sulphate of copper shows little change, although the raw material has receded somewhat. White acetate of lead is quoted 27*l*. 10*s*. per ton and brown 25*l*. Nitrate of lead at 30*l*. to 31*l*. per ton. Acetate of lime scarce, grey being quoted 13*l*. 10*s*. per ton and brown 7*l*. 15*s*. per ton c.i.f. There is not much change in other respects. Coal-tar products quiet. Sulphate of ammonia 14*l*. 3*s*. 9*d*. per ton f.o.r. Manchester.

Heavy Chemicals.

Business in the heavy-chemical market is a little unsettled, but generally speaking there is a fair all-round demand both on home and export account, and also for prompt and forward. The tone of values in practically all directions is firm.

Alkali Produce is active, and considerable attention is being given to next year's requirements. Exports, particularly of soda products, are good. Bleaching-powder is doing well at the higher prices for next year, and other main products as caustic soda, ammonia alkali, soda crystals, and saltcake meet with steady inquiry. Prussiates continue on the firm side.

Sulphate of Ammonia is on the quiet side, and stocks are creeping up somewhat. Present nearest values: Beckton, prompt, 25-per-cent. ammonia guaranteed, 14*l*.; London terms, 13*l*. 10*s*.; Leith, 14*l*. 7*s*. 6*d*.; Liverpool, 14*l*. 5*s*. to 14*l*. 6*s*. 3*d*.; and Hull, 14*l*. 5*s*.

Benzols are steady, with present naked figures, 90 per cent. 1*s*. 1*d*. and 50 per cent. 11*d*. to 11½*d*.; North, 11*d*. to 1*s*. and 11*d*. respectively.

Alumina Products maintain a steady tone, and a fair volume of business has already been done over next year, and mostly at advanced figures as compared with this year. Crystal alum, lump, 5*l*. 15*s*. to 6*l*. 5*s*., and ground in bags 6*l*. 5*s*. to 6*l*. 15*s*. per ton free on rails Lancashire or Yorkshire or f.o.b. Hull, Goole, or Liverpool. Sulphate of alumina, purest qualities, practically free of iron, 4*l*. 17*s*. 6*d*. to 5*l*. 7*s*. 6*d*. per ton for ordinary strength in casks, with usual allowances for loose slabs and customary extras for higher concentrations. Alumino ferrie 52*s*. 6*d*. to 57*s*. 6*d*. and aluminous cake 50*s*. to 60*s*. per ton, according to quality, quantity, and destination. Hydrate of alumina, high strength Al_2O_3 and purest quality, 12*l*. 10*s*. to 13*l*. 10*s*. per ton free on rails in casks. Aluminate of soda, purest quality and high strength, Al_2O_3, 30*s*. to 32*s*. 6*d*. per cwt. Carbonate of alumina 30*s*. to 32*s*. 6*d*. per cwt.

The Bandoeng Quinine-factory.

The report of this factory for 1911 states that during the year 82,000 kilos. of quinine-products, valued at 976,439 florins, was sold. At the end of 1909 the factory had a stock of 33,000 kilos. of quinine sulphate, while the Government and various individuals in the Dutch East Indies held stocks amounting to 67,000 kilos. During 1910 and 1911 these stocks were gradually sold, and by the end of 1911 all the old quinine had been disposed of. In future quinine will be delivered to the Government Medical Service and to individual buyers by contract, and the accumulation of old stock will be avoided as far as possible. At the close of the year the stock of quinine in the factory was valued at 62,611 florins, as compared with 148,750 florins at the end of 1910, while the bark in stock and being worked was valued at 481,997 florins, on a basis of 2.80 cents. per unit of quinine sulphate. Since this valuation prices have risen, and the stock is now worth about twice as much. A dividend of 10 per cent. was declared, and 4,307 florins was added to the reserve, which now amounts to 95,869 florins. The report discusses the cinchona situation in some detail, and points out that there are two serious difficulties ahead for those planters who wish to arrive at an understanding with the syndicate of European quinine-makers—viz., the Dutch East Indian Government's decision to build a quinine-factory in Java, and the proposals of certain irreconcilables among the planters, who wish to erect a factory of their own, even should the Government withdraw the scheme for erecting a factory. The report also draws attention to the lack of Europeans experienced in quinine-factory management, and to the heavy costs of taking chemicals, etc., to the plantations, both of which are serious difficulties in the way of starting factories on the larger undertakings as has been suggested. Planters are also warned that as quinine is principally used in campaigns against malaria among natives, any considerable increase in the price of bark, and therefore of quinine, is certain to cause a reduction in the demand.

American Peppermint Crop.

The Dodge & Olcott Co., of New York and London, have issued a circular in which they state that the crop of 1911 proved to be considerably larger than was estimated at the time of the harvest, and probably exceeded 300,000 lb. Of this heavy output probably less than 50,000 lb. was left in the hands of growers and dealers in all positions at the end of the crop-year, and this residue was about equal to the quantity carried over the year before. It was generally expected that the 1912 acreage would be very materially increased in view of the satisfactory level of prices that had been maintained, and every effort was undoubtedly made in that direction. But a very backward and unfavourable spring curtailed the time for planting, and the actual new acreage probably did not greatly exceed 1,000 acres, or roughly somewhat less than 10 per cent. of the whole area under prior cultivation. This was at least in part offset by old acreage which had run out and would yield little or no crop. Early in the season, therefore, the prospect was that a somewhat larger acreage than last year's would be harvested, and that under reasonably favourable conditions a larger crop than that of 1911 would come upon the market, which suggested a surplus of stock and a downward tendency of values as probabilities for the near future. Weather conditions during the summer, however, became more and more unfavourable. A long-continued period of excessive rainfall retarded the growth of the plant, kept down its ratio of oil-content, and interfered seriously with the distilling operations. The farmers naturally magnified the extent of the damage, and were backward about making contract commitments of their prospective crops at the prices which buyers had earlier fixed upon as a fair basis of value. The Western dealers and speculators, on the other hand, persisted in an optimistic view of the situation, and considerable quantities of oil were contracted out by them for future delivery, not a little of it being sold "short." A deadlock thus ensued between these dealers who sought to buy at a minimum and the growers who were confident of obtaining a maximum price. The growers finally prevailed. Gradually the conviction had spread that the crop was in fact seriously injured, and the stories of a "shortage of 100,000 lb." which had been ridiculed began to find believers. Meanwhile the output of some of the very large individual plantations had been quietly absorbed, and suddenly a rush of buyers to cover their wants (and in some cases their "short" sales) was in full career. Probably, when the excitement subsides, it will be found that the extremely pessimistic view which so suddenly developed as to the size of the crop was not wholly warranted by the underlying facts. But even though a crop of fair proportions shall be found to have been harvested, the level of values established will doubtless be maintained for some time, as the oil actually available for distribution will have cost its holders high, while the farmers who failed to sell in their greed for still higher returns will, as usual, hold on stubbornly to their product and refuse to sell at a concession. . . We do not deem it wise under existing conditions to attempt to provide for future requirements too far ahead. The present position, as explained, is a largely speculative although a strong one.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

What's Wrong with Pharmacy?

Sir,—"Wells," in his book, "Marriage," says, "Oh, why should the life of every day conquer us?" And here I will answer the question of "Infelix" as to what is wrong with pharmacy by asking, Why has pharmacy so many worries which the Co-ops. and companies are free from? "Infelix" is wrong when he answers "the pharmacist is to blame," and it will be quite easy for me to show that although there are many hopelessly incapable retailers, as Mr. Rymer Young says, even the best men labour under heavy odds. The whole trade is wrong from the top down to the bottom; and taking the top as meaning the Pharmaceutical Society, didn't Mr. Gibson of Brighton accuse Mr. Sargeant of Leeds of going back to the conservatism of twenty years ago, when Mr. Sargeant's pet idea was on exhibition the other day? Does not that show the Society (Mr. Sargeant excepted) to be agreed that the twenty-year-old ideas are discarded by the Society, and that they tacitly admit the old ideas to be wrong by their acceptance of new ideas? These wrong ideas, it is fair to assume, have hindered the trade for twenty years. Is it denied? The Society stood aside for twenty years, and by their inaction contributed to the fallacy in the minds of retailers that companies would still be squashed, thus preventing the general acceptance of modern ideas of trading, both wholesale and retail, until the company business had got firmly established, very largely owing to the weakness of the opposition of pharmacists. Poor apprenticeship was, and still is, a result of the Society's wrong ideas. They admit it. I could hardly believe my eyes when I read the paper in the Practice section at the Edinburgh Conference wherein one of our ablest and oldest [?—Editor, *C. & D.*] and highest-class pharmacists advocated an immediate overhauling of apprenticeship. Every good idea which has been mooted for years was propounded therein:

1. The apprentice's note-book to be taken into account in passing the examination.
2. A short pharmacy-college course to be undertaken at the end of a period (say, two years' end).
3. The teaching of "business methods."
4. Dividing the Minor examination and the instituting of an Intermediate examination to stimulate earlier study.
5. The Registrar to keep in touch with apprentices.

No need to go on; there were other ideas. It was an excellent paper, and I would sooner see the high-class pharmacist take to business methods than have myself and my apprentices subjected to the rule of a Society of men who scoffed at science and who fancied themselves entirely modern. Business methods once instituted will last for many years: but science will need continual alteration. I know only too well some of the tricks that are doing duty under the guise of modernity to-day, and I know that such low-down practices are neither permanent nor profitable nor good policy. But the fact of the paper at the Edinburgh Conference shows that it is now recognised, late in the day, that the trade has been hindered by the difficulties, else why is it proposed to remedy them?

The wholesaler was too slow in helping the trade to compete with the companies. They kept on saying to us, "Tell the public yours is a better quality"; and instead of meeting the chemist, who found he needed more lines of stock, by letting him have smaller parcels of goods at a cheap rate so as to compete, they insisted on the 5*l.* limit for patents and the six Winchesters of drugs to get bottom price, because they could not (for one thing) continue to pay their traveller's commission on big orders of varied lines of smalls. The result was, and still is, that businesses will not sell, simply because the stock, say of 600*l.*, is entirely out of proportion to the overturn of 1,000*l.* and the profit of 250*l.* does not leave enough margin, after keeping the owner, to enable him to borrow the cash to go in unless he and his wife can save. Therefore men go to the stores and get 150*l.* in wages at least, and (if their wives will let them save anything) the biggest company has for years offered every inducement to the managers to become substantial shareholders. Enough for the present. There are other reasons, but these the chief.

Yours truly,
Jay Mack.

Dispensers and the Insurance Act.

Sir,—Seeing that neither the Pharmaceutical Society nor the Society of Apothecaries are entitled to grant certificates to those dispensers who are qualified to dispense medicines under the National Insurance Act, will all persons so qualified forward their names and addresses to the undersigned at 45 Pottinger Street, Ashton-under-Lyne, with a view to forming a Society of Dispensers, and granting a certificate to same?

Yours respectfully,
A. Rothwell.

Insurance Act: Contracts without Specifications.

Sir,—In a few days chemists will be asked to tender prices for work the value of which it is impossible to estimate, because there is no specification or quantities submitted with the form of tender. No business man in any other walk of life would enter upon such a speculation or quote a price for his labour without knowing the number of hours of employment. One-and-sixpence per head per annum has been mentioned as the amount for which medicines, service, and dispensing are to be supplied to insured persons. Any chemist who takes on the capitation "gamble" ought to be taken care of by the State, his family insured against loss, because his profits must be infinitesimal if he gets any profit at all. Another proposition is that the drugs are to be priced by the grains contained in the mixture, *plus* 2*d.* fee for dispensing, in which case the time occupied in making out the bill would swallow, in some instances, most of the profit. For instance, ½ grain of strychnine to be divided in sixteen doses, cost 1*d.*; fee 2*d.*=3*d.*, for which service a chemist might be deprived of his State half-holiday. No chemist who has a good business and charges his business with his own personal services (very few do) can afford to waste his time and sacrifice his liberty to superintend or do such work. On the other hand, if there be any young qualified men who are prepared to sell their labour (at less than bricklayers' wages) for the best part of their lives, they will in due time obtain, or at least deserve, the old-age pension if they survive the age of sixty.

There are some points in the condition of service which I hope you, some of your readers, or the Insurance Commissioners will be able to explain, and let us know definitely what is required; otherwise the proverbial coach-and-four can be driven through the Act. Qualification for dispensing does not imply that the dispenser shall have passed any examination or be possessed of an intimate knowledge of the drugs he handles, or has proved himself capable of doing more than measuring the contents of one bottle into another. The Act says the dispensing shall be done by or under the direct supervision of a registered pharmacist, or by a person who for three years prior to 1911 has acted as dispenser to a practitioner or public institution. What is direct supervision? The supervisor need not be a qualified pharmacist. If the pharmacist checks every detail, he might as well do the work himself, and would have no time to attend to his own business. If supervision means acceptance of risk and responsibility only, then any drug company with one qualified or half-qualified man may employ any number of unqualified dispensers to do the work and insure himself against accidents. The medical man need not insure himself, because he can write a death-certificate, dispense how he likes, whether he is properly equipped for service or not. If any

person who has acted in the capacity of a dispenser to a practitioner or a public institution is qualified by the Act, then the whole army of porters, errand-boys, grooms, gardeners, or other intelligent assistants become dispensers and supervisors, although they might not have the slightest knowledge of true pharmacy or have read a book on the subject. On what basis do the Insurance Commissioners arrive at the capitation-fee of 1*s.* 6*d.* per head per annum? What proportion of approved life members of the friendly societies apply for medical relief?

A chemist, like any other contractor, must, before committing himself to a bargain, go to the root of the business and estimate his prime cost, reckoning in addition to the actual cost of the drugs his own wages or those that are paid by him, a proportion of his rent, rates, taxes, and establishment charges, and see how much per cent. it will cost him from the time he takes in the prescription until the medicine is handed to the patient. If we admit that the "Eighteenpenny Capitation" is a gamble and out of the question, suppose 100 prescriptions are presented. What is the average time which could be fairly allowed for correct dispensing? How much per hour has a chemist a right to expect for his labour? Suppose the actual cost of the commonest ingredients in each prescription be 3*d.* (it may be 1*s.* or more), what percentage on 3*d.* will cover establishment charges? Add the fair-living wage, and estimate that only half the insured will submit to the treatment, how far will 2*s.* per annum go to supply the rare and refreshing fruit which has been promised? If the doctors are allowed to dispense themselves, they may think medicine unnecessary. If they prescribe all that they know is wanted, the price will be prohibitive, and more millions will be required from the people.

Yours faithfully,

Hereford. J. J. Jackson, Ph.C.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Up to Date.

"½ lb. of seed for Bulgarians, please." White millet, being the staple food of the budgerigar, filled the bill satisfactorily. Balkan papers, please copy.—(83/21.)

Hiccough.

A very effective mode of treatment for this trouble in ordinary healthy individuals is to take a drink of water while the fingers are pressed into the ears.—*Delta* (85/1).

Appreciations.

"I look forward each Friday evening, when I get home, for my *C. & D.* I find it most useful to me and very interesting."—(75/27.)

A Kimberley C.C. Chemist (206/20) writes: "Please find 10*s.* sub., which I hope will reach you safely. Many, many thanks, it comes regularly and is *the first* of a good variety to be scrutinised and profitably digested."

Liquor Plumbi.

Liq. plumbi fort. (speaking from twenty years' experience West of England and South Wales) should be dispensed for liq. plumbi.—*A. Griffiths* (Maesteg).

In most cases (if a customer requested it) by chatting to him it would be an easy matter to discover which was required, the weak or strong. In the case of a prescription, I should give liq. plumbi dil.—*Twenty Years' Experience* (82/1).

Have always dispensed liq. plumbi fort. for liq. plumbi in good-class dispensing businesses in London, Manchester, Liverpool, Gloucester, Brighton, Biarritz, Boulogne, and Nice, and never been contradicted since. Surely this experience has fixed liq. plumbi fort. for liq. plumbi.—*Romer* (82/29).

Liq. plumbi 1867 B.P. was the fort. Liq. plumb. diacet. Ph. Lond. 1851, Ph. Edin. 1841, and Ph. Dubl. 1850, were the fort. B.P. 1885 was, I think, the same as 1867. In order to obviate error new naming was adopted in 1898; but in doing so it renders the term "liq. plumbi" obscure. Is it fort. or dil.? B.P.C. says "dil." for "Liq. plumbi"; but, again, a "Pharm. Journ." publication says it is fort. One must judge by context of prescription and what it would render obvious, but outside any guidance liq. plumbi must be what is now called liq. plumb. subacet. fort. —*George Lunan* (Edinburgh).

Liq. plumbi subacet. fort. is also given by Dr. L. F. Hemmans (Lewisham), B. L. Burrell (Doncaster), John W. Thornton (Forest Gate), and others. It wins.

Legal Queries.

Consult "The Chemists' and Druggists' Diary," 1912, pp. 435 to 454, where most legal difficulties are anticipated, before writing about your difficulty.

Remedy (78/71).—Terebene of the British Pharmacopœia is an entire drug, and as such can be sold unstamped by such a name as "Smith's Remedy for Colds" under the entire-drugs exemption of the Medicine-stamp Acts.

L. F. (84/11).—It is not illegal to take orders for stamped medicines at the houses of customers and to deliver the goods from the licensed premises, but it is illegal to go from door to door and sell such medicines, delivering them from stock carried by the pedlar.

G. C. I. (88/39).—Whenever you realise that a limited company is an entity legally distinct from the persons constituting its staff of workers, you may be able to understand that these persons, from director to errand-boy, are employed by the company.

Aspirin (76/73).—A private limited company can be formed of two persons, and such a company may carry on the business of a chemist and druggist provided it conforms with the provisions of the Poisons and Pharmacy Act, 1908, Section 3, which you will find in the *C. & D. Diary*, p. 438.

Mel Boraeis (85/34).—A registered chemist receiving 2*l.* 10*s.* per week from a limited company, of which he is a director with the nominal qualification of one share, must be insured under the National Insurance Act as an employed person, unless he has a private income which entitles him to exemption, but that will not exonerate the company from its weekly payment in respect to him.

Specialties (76/11) asks if he can use an address on his toilet preparations such as "The Blank Toilet Co., Paris and New York." [Such descriptions are now very commonly used in the trade, and so long as they are not used in a manner calculated to deceive they are not an infringement of the Merchandise Marks Acts, which are the statutes that apply in such cases.]

M.P.S. (81/9) submits the following questions: (1) Is it necessary for the maker of a proprietary pill to hold a patent-medicine licence for the supply of these pills wholesale for resale by chemists? [Yes.] (2) If these pills contain a poison, can he also supply them wholesale, notwithstanding that he is not a qualified person? [Yes.] (3) Would the pills (for gout, etc.) be required to be labelled with the name and amount of the poisonous ingredient? [No; but they must be labelled "Poison."]

Kino (74/55) says the local gas company of his town intimate that they intend fixing a bracket and lamp on "Kino's" premises over the shop in the main street. Can they legally do this without his permission, the property being his own? [Neither the gas company nor any other local body have any right, under the general law of the country, to affix a lamp to "Kino's" premises without his consent. It is possible, however, that the gas company are empowered by some Special Act of Parliament, in force locally, and "Kino" should ascertain from the company under what authority, if any, they claim to affix the lamp.]

Floor (77/5) asks the following questions regarding the closing of his shop under the Shops Act so far as the sale of medicines and medical and surgical appliances is concerned: (1) Can I leave the door open? I have the outside red lamp burning. [Yes.] (2) My usual way of closing is to put up two iron gates. Will that be sufficient for the Act? [Yes.] (3) I have always, before the Act, closed sharp at 1.30 and opened at 7 to 9. Can I, under a compulsory closing order, still do so? [Certainly, so far as the sale of medicines and medical and surgical appliances is concerned, but the greatest care must be taken to ensure that exempted goods only are exhibited and sold.]

R. W. (82/15) states that an order under the Shops Act, 1912, has been made and confirmed requiring shops in his district to close on Wednesdays. On the first of the month a sub-post office was transferred to his shop. Hitherto the post-office has been closed on Thursday afternoon. "R. W." proposes to keep his entire shop open on Wednesdays and closed on Thursdays. Is he justified in adopting this course? [In our opinion, "R. W." cannot legally keep his shop open on Wednesday. He must close it either on Wednesday or on Saturday (the alternative day allowed by every order). It is possible, however, that "R. W." may be able to keep his shop open for the transaction of post-office business on early-closing day by virtue of Section 12 of

the Act if he wishes to do so, and the exemption as to certain articles has also to be kept in mind.]

Para (77/42).—A chemist's business was sold, and the vendor after a while left the town. The business name has not been changed, and the vendor has left word at the post-office that all letters which arrive addressed to him at the business are to be forwarded. The result is that orders which are intended for the purchaser arrive two days late. Is the vendor justified in acting as he has done? Does not the goodwill of a business include the name and address? [The purchaser of the goodwill of a business is entitled to use the trade-name of the vendor in carrying on the business, and also the address if the premises are assigned. On the other hand, the vendor is still entitled to the use of his own name, and to arrange for delivery of his letters in the most expedient manner possible. In the present case, however, the vendor is, in effect, interfering with the purchaser's trade by delaying receipt of orders. If damage to the purchaser's business results from this interference, we think that, upon application to the Court, it would probably be restrained by injunction, but the chances of obtaining an injunction would depend upon the wording of the assignment of the business, the mode of effecting the assignment, and other surrounding circumstances.]

Miscellaneous Inquiries.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published prices, usually 6d.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

H. K. (58/4).—Factory Costings.—Preen's "Reorganisation and Costings" (Simpkin, 1s.) is a book you should obtain. The information is general, but covers modern methods.

L. T. (50/15).—Effect of Quinine on Stallion.—It is not on record that quinine administered to a stallion prevents conception or influences the sex of the foal. Quain states that experiments on animals have shown that quinine greatly diminishes the reflex function of the spinal cord, and it follows that the genital organs and the secretion of semen would be affected, but not, we should say, in the direction you indicate.

A. H. E. (72/17).—(1) Renovating Hot-water Bottles.—Wipe with a rag dipped in chloroform, and dust with French chalk. (2) Sponge-bleaching.—See *C. & D.*, August 19, 1911, index folio 334.

H. J. H. (66/42).—We cannot trace a formula for "Balsamo Carbolico"—it is possibly a proprietary preparation in South America.

G. P. (65/43).—Liquid Dog-soap.—The quantity of water in the formula you send is 1 gal. See *C. & D.*, October 28, 1911, index folio 664, which was, we believe, the last time we gave this recipe.

B. W. (61/14).—Artificial Carlsbad Salts.—The following is the German Pharmacopœia formula:

Dried sulphate of sodium	...	3xxij.
Sulphate of potassium	...	3j.
Chloride of sodium	...	3ix.
Bicarbonate of sodium	...	3xviij.

These ingredients to be powdered separately and mixed. Sometimes the mixture is dissolved in the smallest possible quantity of hot water, and evaporated with constant agitation so as to obtain granulated crystals, or it may be allowed to evaporate slowly to get larger crystals, but the resulting "salt" is not always uniform when made in this way. The effervescing variety is made by mixing (and, preferably, slightly granulating) 11 oz. of the above powder with sodium bicarbonate 6 oz., tartaric acid 5 oz.

J. S. (63/39).—Motor-car Tyre Paint.—See *C. & D.*, June 24, 1911, index folio 928.

R. S. C. (65/15).—Removing Parts of Photographic Negative.—For the purpose of removing objectionable backgrounds from negatives or clearing the sky of lantern-slides a solution of sodium hyposulphite tinted with potassium ferricyanide is commonly used. It answers splendidly, as you can see for yourself if you experiment with an old negative. The film should be well soaked before the solution is applied with a camel-hair brush.

Verax (64/48).—There is no disease of the name you mention. If you tell us the symptoms we may perhaps be able to recognise it.

North (73/38).—Cementing Celluloid.—For this purpose is employed a solution of celluloid in acetone, or a mixture of ether (3) and spirit (1). The cement is applied, and the parts are then pressed together until the solvent has evaporated.

H. C. (185/32).—The following are the formulæ for which you ask:

White Embrocation.

Camphor	...	2 oz.
Acetic acid	...	5 oz.
Yolks of eggs	...	5
Turpentine oil	...	24 oz.
Distilled water	...	24 oz.

Headache-powder.

Acetanilide	...	2 parts
Caffeine	...	1 part
Phenacetin	...	3 parts

Dose: 2 to 6 grains.

Solid (68/66).—Solidified Spirit.—The following is the method of solidifying methylated spirit: Melt 4.5 parts of stearin, and then add to it 0.5 part of sodium carbonate (to saponify) and 95 parts of spirit, heating the mixture, with proper precautions, in a closed vessel for an hour. Colouring matter may have been previously dissolved in the spirit. The finished mass is cut up into cubes or run into tin boxes ready for use.

M. H. G. (73/19).—Shampoo-powder for Dry Use.—The following are references to formulæ given in recent issues of The Chemist and Druggist: March 23, index folio 460; March 18, 1911, index folio 417; July 29, 1911, index folio 226; and November 25, 1911, index folio 800.

A. W. (59/8).—Agar-agar in Constipation.—We know of no treatise on this subject. Full particulars of the use of agar-agar in constipation were given in The Chemist and Druggist, September 3, 1910, index folio 388, and a *résumé* was also published in our issue for March 2, 1912, index folio 344.

Irish (71/46).—Chemical Barometer.—The formulæ to which you refer are correct, but the proportions and strength of spirit must not be varied. If you have produced a clear solution you must add either a small additional quantity of the salts or a little spirit until a solution slightly supersaturated is produced. These chemical barometers are not to be regarded seriously—they are only toys—as the variations in the amount and kind of precipitate do not depend alone on atmospheric pressure.

Agriculture (69/54).—Wheat-dressing.—A sample of this preparation which we examined earlier in the year (*C. & D.*, February 10, index folio 241) was found to be a thinned coal-tar containing the cresols. It was employed in the proportion of a pint to 4 bushels of grain. We have no doubt that your local gasworks could supply you with the tar for this purpose.

Nemo (50/40).—(1) Books on Dogs.—Woodruff Hill's "Management and Diseases of the Dog"; Sewell's "Dog's Medical Dictionary"; Mayhew's "Dogs and their Management." (2) Books on Swine.—Moussu and Dollar's "Diseases of Cattle, Sheep, Dogs, and Swine"; Sanders Spencer's "Pigs: Breeds and Management." (3) Books on Poultry.—Wright and Ludlow's "New Book of Poultry"; Wright's "Practical Poultry-keeper." (4) The new edition of the British Pharmacopœia may not be published till 1914. (5) Lucas's "Book of Prescriptions" (Churchill, 6s.) gives a large number of prescriptions showing the combinations of drugs usually employed in medicine.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Oct. 15, 1862.

Thallium.

We hear that one of the most eminent Continental chemists, one of the Jury of Class II., has presented Mr. Crookes with several tons of material containing large quantities of thallium. This act of kindness shows how Mr. Crookes's discovery is appreciated on the Continent, although his own countrymen tried to carry out the old adage about prophets at home. The Royal Society has presented Mr. Crookes with 50*l.* to continue his researches, and furnaces and other appliances are being erected for the purpose of extracting the metal from its ore. We shall soon know as much about this new metal as we do about its congener, lead. Who knows? Perhaps The Chemist and Druggist for the year 1872 may be printed from types made of thallium alloy.

PEARS

SOAPMAKERS

BY

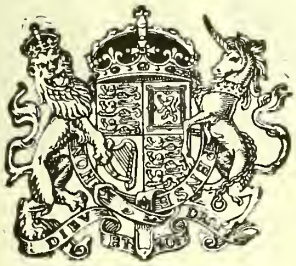
APPOINTMENT

TO THEIR

MAJESTIES

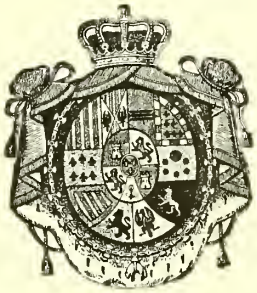
THE

KING & QUEEN.



KING GEORGE V.

QUEEN MARY.

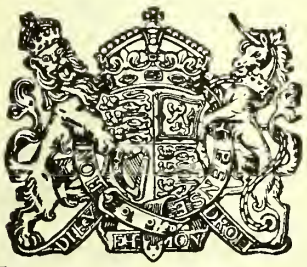


Also to the

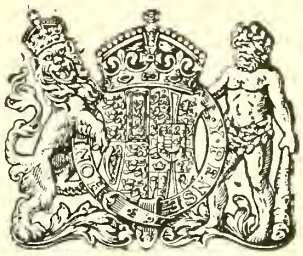
KING & QUEEN

OF

SPAIN.



THE LATE KING EDWARD VII.



QUEEN ALEXANDRA.

AWARDED 22 PRIZE MEDALS.

PRICE LIST & SHOWCARDS ON APPLICATION.

HEAD OFFICE :—

LONDON—71-75 New Oxford Street—LONDON.

DEPOTS :—

NEW YORK—417-421 Canal Street—NEW YORK.

CHICAGO—232-4 Randolph Street—CHICAGO.

MELBOURNE—495-497 Bourke Street—MELBOURNE.

:: The NEW PURE LIQUORICE Juice ::

APOLLO.

The makers of the well-known brands of Pure Block Juices "V.B." and "B.X.," who are the largest manufacturers of Liquorice in the World, beg to notify the Trade that they now manufacture a high-class **PURE STICK JUICE** which they have placed on the market under their registered brand ***"APOLLO."***

The same guarantee of absolute Purity, which for the past sixty years has been given with their Block Juices, equally applies to their new stick ***"APOLLO."***

Can be obtained of all the leading wholesale Houses.

COD LIVER OIL MANUFACTURERS & WHOLESALE EXPORTERS.

COD LIVER OIL

JERVELL & CO., Ltd. (*Late Otto S. Jervell*)
AALESUND, NORWAY.

FACTORIES AT LOFOTEN.

Finest NON-FREEZING LOFOTEN COD LIVER OIL.

OIL

Sole Agents for United Kingdom: *W. Charity & Sons, 14 Harp Lane, London, E.C.* *Tel. Add.: "Charity London." Tel. No.: Avenue 4359.*

ATKINSON & BARKER'S
ROYAL INFANTS' PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON,
11 Russell Street, C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

A Pure Extract of Malt—

DIAMALT

(REGD.)

Universally Prescribed by the Medical Profession.

30% Profit to the Retailer.

DRY DIAMALT

(REGD.)

AN ENTIRELY NEW PRODUCT.

A highly diastasic Crystallised Extract of Malt of great nutritive value. The only product of this description on the Market.

AN IDEAL MALT FOOD.

Eminently Suitable for Export.

THE BRITISH DIAMALT CO.,
13 Southwark Street, LONDON.

Maltings and Malt Extract Works: SAWBRIDGEWORTH.

TRY "Electro" Specialities.

Sulphite of Soda Crystals.

Hyposulphite of Soda.

Muriate of Ammonia.

It is worth your while to send for Samples and Price.

TELEGRAMS: "ELECTRO." TELEPHONE No. 21.

THE ELECTROLYTIC ALKALI CO. LTD.
MIDDLEWICH, CHESHIRE.

TRADE MARK.

C. H. B. S. Kaiserpfalz INGELHEIM

AGENTS:
F. W. BERK & Co., Ltd., Fenchurch Av., London, E.C.
BRYCE, SON & Co., Manchester.

COCAINE
MORPHINE
CODEINE
APOMORPHINE
COTARNINE
ETHYLMORPHINE
DIACETHYLMORPHINE
and all other Opium-Alkaloids.

"INGELHEIM" BRAND.

C. H. BOEHRINGER SOHN, ***NIEDER-INGELHEIM,*** **O/RHINE.**

Schmitt & Wildenhayn,

DARMSTADT, Germany.

Headquarters for all European Pharmaceutical **Crude Drugs,** Kitchen Herbs, etc.; also **Importers of** Colonial and Exotic Drugs (Jaborandi Leaves, Manaca Root, GUM CHICLE, etc.)

PURE Chemicals, Dressed Drugs, Pharmaceutical and Alcoholic Preparations, Methylated Spirit, Essences for Rum, Gin, etc., etc.

Special for the TROPICS: ANT EXTERMINATORS.

All Correspondence promptly and courteously attended to.

SAL HEPATICA.

PUT UP FOR EXPORT.

Small	size,	3 oz.	bottle,	in case.
Medium	,,	7 ,,	,,	,,
Large	,,	16 ,,	,,	,,

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

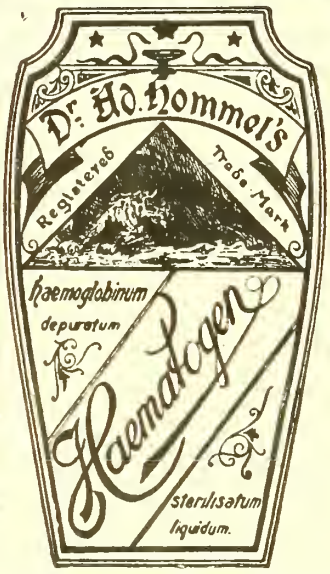
The American Drug Stores, 24 Orange Street, Haymarket, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman Street, E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street, W.

Dr. HOMMEL'S Haematogen.



Dr. HOMMEL'S HÆMATOGEN

:: (The Original Hæmatogen) ::

As recommended by the Medical Profession for the last 20 years.

THE BEST BLOOD BUILDER, NERVE & BRAIN FOOD.

Please note that when you are asked for Dr. Hommel's Hæmatogen or Hommel's Hæmatogen **nothing else may be supplied except our well-known Hæmatogen, as we have special legal rights to the designations Dr. Hommel's and Hommel's Hæmatogen.**

Further, our Hæmatogen has for so long enjoyed an unrivalled sale in this country that Doctors and others frequently refer to it simply as "Hæmatogen"—**in such cases it is our Hæmatogen which is required.**

BE CAREFUL THAT YOU GET THE RIGHT ARTICLE.

AKTIENGESELLSCHAFT HOMMEL'S HÆMATOGEN, Zurich

SOLE AGENTS IN THIS COUNTRY AND FOR THE COLONIES:

GERTH VAN WYK & CO., 36 & 36a St. Andrew's Hill, LONDON, E.C.

THE LEADING LINE IN PATENTS

QUICKEST SALES

BEECHAM'S PILLS

May now be had in **£5** Lots, at Lowest Prices, Carriage Paid. Packages Free.

ORDERS must be accompanied by Cash. Cheques to be made payable to Thomas Beecham, and crossed "Parr's Bank, Limited, St. Helens."

	PER DOZEN
PRICES.—Beecham's Pills, 13½d. size (56 pills)	.... 9/6
„ 2s. 9d. „ (168 „)	.... 25/-
Beecham's Tooth Paste, 1s. size	.... 7/6

ADVERTISING MATTER to suit Retailers' requirements will be sent on application.

Address—**THOMAS BEECHAM, ST. HELENS, LANCASHIRE.**

EMETINE HYDROCHLORID. (Whiffen's).
EMETINE HYDROBROMID. (Whiffen's).
For Hypodermic Injection.

The New Remedy in Amœbic disease.—Vide *British Medical Journal*, Aug. 24, 1912, pp. 405–408.

We have manufactured these preparations during the past fifteen years, and they may be obtained by ordering Whiffen's Brand, from all Chemists and Wholesale Drug Houses in the United Kingdom and Abroad.

WHIFFEN & SONS, LIMITED, BATTERSEA, LONDON, S.W. Telephone—254 and 255 BATTERSEA.

PATTINSON'S
PATTINSON'S PATESIA MAGNESIA TRADE MARK
MAGNESIA
CARBONATE. CALCINED AND FLUID.
THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.
London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.

HEADQUARTERS FOR
CHLOROFORM
T. & H. SMITH, Ltd.,
BLANDFIELD CHEMICAL WORKS, WHEATFIELD ROAD, EDINBURGH; 22 CITY ROAD, LONDON; 37 WASHINGTON STREET, GLASGOW.

B & S Brand B & S Brand
COCAINE BOEHRINGER
SULPHATE OF QUININE AND ALL CINCHONA PREPARATIONS.

Acetanilid,	Codeine,	Hydrastine,	Pilocarpine,	Terpin-Hydrate,
Atropine,	Coumarine,	Hydroquinone,	Pyrogallic Acid,	Veratrine,
Caffeine,	Eserine	Lactophenine,	Resorcine,	etc.
Chloral-Hydrate,	Guaiacol,	Phenacetin,	Santonine,	

C. F. BOEHRINGER & SOEHNE, MANNHEIM-WALDHOF (Germany)
SOLE AGENTS FOR THE UNITED KINGDOM:— Messrs. DOMEIER & CO., 8 Harp Lane, LONDON, E.C.

Chininfabrik Braunschweig,
BUCHLER & CO., BRUNSWICK, GERMANY.
QUININE. COCAINE.
RADIUM. ZINC SULPHIDE-SCREENS
Agent for Great Britain :— H. Buchler, Dunster House, Mincing Lane, E.C.

WRIGLEY'S SPEARMINT WRIGLEY'S SPEARMINT WRIGLEY'S SPEARMINT

The Only Largely Advertised Chewing Gum in England is

RETAILS 2½d. PER PACKET

RETAILS 2½d. PER PACKET

Chemists all over England are stocking and selling **WRIGLEY'S SPEARMINT** in great quantities. **Are you?**

You will find **WRIGLEY'S SPEARMINT** Pepsin Gum a most profitable side line. In our advertising we are telling the public what **WRIGLEY'S SPEARMINT** really is; expounding its benefit to the teeth and digestion, its soothing action upon the nerves, &c. Also we are telling exactly what it is made of—which has never been done for Chewing Gum before.

Costs You 2/3d. per Box.

WRIGLEY'S SPEARMINT sells at sight.

Stocked by Butler & Crisp; Sangers; May, Roberts; John Thompson, and all wholesalers.

WRIGLEY'S, LTD.
164 Piccadilly, London, W.

Sells Quickly at 4/2d.

WRIGLEY'S SPEARMINT WRIGLEY'S SPEARMINT WRIGLEY'S SPEARMINT

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

*Acet. Ipecac, B.P., 7½lbs. @ 1/5 lb.
*Acid. Scillæ, P.B., 7 lbs. @ 3d. lb.
*Acid. Acet. Glacial., 99%, Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 7d. lb.; 6 lbs. @ 8d. lb.
,, Acetylo-Salicyl., 56 lbs. @ 2/4 lb.; 7 lbs. @ 2/7 lb.; 1 lb. @ 2/9 lb.
,, Diethylbarbituric, 16 oz. @ 23/6 lb. 1 oz. @ 1/10 oz.
* ,, Hydrobrom., dil. B.P., 6 lbs. @ 7d. lb.
* ,, Hydrocyan, P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1-oz. Vials @ 3/6 doz.
* ,, Phosp. Dil., B.P., 7 lbs. @ 4½d. lb.
,, Salicyl. pulv., 7 lbs. @ 1/2 lb.; phys. pure, 1 lb @ 3/1 lb.
,, Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.: parv. ½d. lb. extra.
Aloes Barb., English ground, 28 lbs. @ 84/- cwt.; 7 lbs. @ 10d. lb.
Ammon. Brom., P.B., 7 lbs. @ 2/2½ lb.
Ammon. Carb. lump. 3 cwt. @ 4½d. lb.; 28 lbs. @ 5½d. lb.; 7 lbs. @ 5½d. lb.; powder, ½d. lb. extra.
Amyli Pulv. 10 cwt. @ 13/3 cwt.; 2½ cwt. @ 15/- cwt.; 1 cwt. @ 16/6 cwt.
*Aqua. Anethi Conc. 1–40, 1 lb. @ 2/11 lb.
* ,, Anisi Conc. 1–40, 1 lb. @ 3/1 lb.
* ,, Cinnam, Conc. 1–40, 1 lb. @ 3/4 lb.
* ,, Aurant. Trip., 53 lbs. for 17/6; 6 lbs. @ 7d. lb.
* ,, Aurant, Conc., 1–40, 1 lb. @ 6/1 lb.
* ,, Rosæ Trip., 53 lbs. for 20/-; 6 lbs. @ 7d. lb.
* ,, Rosæ Conc. 1–40 1 lb. @ 6/- lb.
* ,, Samb. Trip. 53 lbs. for 23/6; 6 lbs. @ 8d. lb.
* ,, Samb. Conc., 1–40, 1 lb. @ 6/1 lb.
* ,, Laurocerasi, 53 lbs. for 20/-; 6 lbs. @ 7d. lb.
* ,, Menth. Pip. Conc., 1–40, 1 lb. @ 3/- lb.
Bacc. Juniper, 28 lbs. @ 22/-; 7 lbs. @ 3d. lb.
Bismutb, P.B., Carb., 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit 1/- lb. less.
Calcii Carb. præcip, 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. at 21/- cwt.
Campbor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; ½ or ¼ oz. 7 lbs. @ 2/- lb.
Cetaceum, No. 1, fine white English, 64 lbs. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.; powder, 7 lbs. @ 1/9 lb.
Cocaine Hydrochlor, B.P. 25 ozs. @ 6/- oz.; 4 ozs. @ 6/6 oz.; 1 oz. @ 7/6 oz.
Cream Tartar, 98% powder, 1 cwt. @ 90/- cwt.; 7 lbs. @ 11d. lb.
Cubebæ, Englisb Ground, 7 lbs. @ 2/1 lb.
Emulsio Ol. Morrhuæ, 10 lbs. @ 9d. lb.
,,*Ess. Pear (actificial), Jargonelle, 5 lbs @ 2/8 lb.; Bergamot, 3/2 lb.
*Ess. Pineapple, 5 lbs. @ 3/1 lb. [lb.
*,,*Raspberry 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6
*,,*Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @ 4/7 lb.
Exalgine (see Methy Acetanilide)
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 6/- lb.; 1 lb @ 6/6 lb.
Ferri et Quininæ Cit. P.B., 500 ozs. at 4½d. oz; 100 ozs. @ 4½d. oz.; 25 ozs. @ 4½d. oz.
Glycerin. Opt., DD., 1,260 P.B., 1 cwt. @ 94/- cwt.; 56 lbs. @ 95/- cwt.; 12 lbs. @ 1/1 lb.
Hydrargyrum, P.B., 75-lb. bottle @ £8; 10 lbs. @ 2/5 lb.; 1 lb. @ 2/8 lb.; Amon., 28 lbs. @ 3/5 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid, Rub., 28 lbs. @ 9/8 lb.; Oxid. Rub., 28 lbs. @ 3/5 lb.; Perchlor., Lump. 28 lbs. @ 2/9½ lb.; Subchlor., 28 lbs., @ 3/1½ lb.; Sulph. c. Sulph., 28 lbs. @ 12/11½ lb.; 7-lb. quantities 1d. lb. extra, 3 lb. quantities. 2d. lb. extra, 1 lb. quantities, 3d. lb. extra.
Ichthyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent; Ammon. Ichthosulphonas, 7 lbs. @ 5/-lb.; 1 lb. @ 5/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Buchu Conc., 1 to 7, 6 lbs. @ 2/- lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/2 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Insect Powder, Opt. English grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.
Lin. Camph. P.B., 40 lbs. @ 10d. lb.; 9 lbs. @ 11d. lb.
Methyl Acetanilide (Exalgin), 4 oz. @ 1/1 oz.; 1 oz. @ 1/5 oz.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½ lb.
Morphinæ Acet Hydrochlor, or Sulpb., Pulv. B.P., 25 oz. @ 10/4 oz.; 16 oz. @ 10/7 oz.; 8 oz. @ 10/9 oz.; 1 oz. @ 11/6 oz.; Pur. Præcip. Bimeconate or Tart. 1 oz. @ 14/- oz.
Naphthalene, Candles or Balls, 1 cwt. @ 12/6 cwt.; 56 lbs. @ 14/6 cwt.; 28 lbs. @ 16/- cwt.
Ol. Caryoph. Aug., B.P., 9 lbs. @ 4/11 lb.; 4½ lbs. @ 5/1 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.; Ligne Exot, 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Olivæ P.B., good yellow, guaranteed pure, 45 gall, Barrels @ 4/8 gall.; 2 gall. tins @ 5/3 gall.
Ol. Origani Rub. Com. 28 lbs. @ 1/7 lb.; 9 lbs. @ 1/9 lb.
Opium Turc. B.P., 14 lbs. @ 22/- lb.; 3 lbs. @ 22/9 lb.; 1 lb. @ 23/6 lb.; powder, 6d. lb extra.
Papain, 1–80, 1 lb. @ 18/6 lb.; 1 oz. @ 1/7 oz.
Paraffinum Durum B.P., 2 cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3½d. lb.; 7 lbs. @ 4½d. lb.; Molle Flav., B.P., 3½ cwt. @ 17/6 cwt.; 1 cwt. @ 26/- cwt.; 28 lbs. @ 3½d. lb.; 7 lbs. @ 4d. lb.; Alb. B.P., 3½ cwt. @ 55/- cwt.; 28 lbs. @ 7d. lb.
Paraldebyde, B.P., 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.
Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.
Phenacetin, P.B., pulv., 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. @ 3/- lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6 lb.
Phenolphthalein, 7 lbs. @ 5/6 lb; 1 lb. @ 6/- lb.
Pix. Burgund, Druggists', 1½ cwt. @ 25/6 cwt.; 7 lbs. @ 4½ lb.
Plumbi Acetas, Druggists', 1 cwt. @ 34/6 cwt.; 7 lbs. @ 5d. lb.; Powder, 1½d. lb. extra.
Podophyli Resina, P.B., 1 lb. @ 10/- lb.
Potassa Caustica Sticks, P.B., 28 lbs. @ 10d. lb. 6 1-lb. Bots. @ 11d. lb.
Potas. Acetas. Gran. P.B., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
Potass. Bromid. P.B., 1 cwt. @ 1/7 lb.; 28 lbs. @ 1/7½ lb.; 7 lbs. @ 1/9 lb.
Potass. Permang., Cryst., 1 cwt. @ 39/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.
Rad. Ipecac, Rio., 7 lbs. @ 10/-; 1 lb. @ 10/6.
Rad. Jalap. English Ground, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.
Rad. Rbei, E 1., English Ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.
Saffron, Valentia, B.P., 7 lbs. @ 46/-; 1 lb. @ 47/6 lb.; 1 oz. @ 3/2 oz.
Sal. Acetos., 1 cwt. @ 5 l. lb.; 56 lbs. @ 5½ l. lb.; 7 lbs. @ 6½d. lb.
Salicinum, B.P., 1 lb. @ 16/6 lb.
Salol, B.P., 7 lbs @ 2/3 lb; 1 lb. @ 2/6 lb.
Sang. Draconis pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.
Sapo Cast. Alb, 10 cwt @ 26/- cwt.; 2 cwt. @ 27/- cwt.; 7 lbs. @ 3½d.; pulv., 1 cwt. @ 65/- cwt.; 56 lbs. @ 68/- cwt.; 7 lbs. @ 8d. lb.; Animal pulv., 1 cwt. @ 67/- cwt.; 56 lbs. @ 70/- cwt.; 7 lbs. 9d. lb.
Soda Cit., B.P., 3 lbs. @ 1/11 lb.
Soda Salicyl Pulv., 7 lbs. @ 1/6 lb.; phys. pur.; 28 lbs @ 2/3 lb; 1 lb @ 2/6 lb
Sodii Bromid., P.B., 7 lbs. @ 2/1½ lb.
Strychnina cryst., B.P., 25 ozs. @ 2/- oz.; 1 oz. @ 2/6 oz.; Hydrochlor. and Sulphate, 2d. oz. less.
*Syr. Aurant, P.B., 7 lbs. @ 9½d. lb.
* ,, Easton, B.P., 7 lbs. @ 1/0½ lb.
* ,, Ferri Iodid. P.B., 7 lbs. @ 1/3½ lb.
* ,, Ferri Phospbat. Co., 7 lbs. @ 5½d lb.
* ,, Hypopbosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* ,, Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* ,, Rhamni, 7 lbs. @ 10½d. lb.
* ,, Rhei P.B., 7 lbs. @ 8d. lb.
* ,, Scillæ P.B., 7 lbs. @ 5d. lb.
* ,, Sennæ P.B., 7 lbs. @ 8½d. lb.
* ,, Tolut. P.B., 7 lbs. @ 8½d. lb.

Tinct. Aurantii. Recens, B.P., 5 lbs. @ 3/6 lb.; bond, 8½d.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6½d.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d.
*Tinct. Camph Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6½d.
*Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb. bond, 6½d. lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb.
*Tinct. Chlorof. c. Morph., B.P., 1835, 5 lbs. @ 2/- lb.; bond, 1/5½ lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb. bond, 1/0½ lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.
*Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; bond, 6½d.
*Tinct. Gentianæ Comp., B.P., 5 lbs @ 1/11½ lb.; bond, 6½d. lb.
*Tinct. Hyoscyamil B.P., 5 lbs. @ 2/5 lb.; bond, 6½d. lb.
*Tinct. Iodi. B.P., 5 lbs. @ 4/2 lb.; bond, 1/6 lb.; decolor. 5 lbs. @ 4/6 lb.; bond, 1/3½.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7½d. lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9½ lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.
*Tinct. Opii. B.P., 5 lbs. @ 3/8 lb.; bond, 2/6 lb.
*Tinct. Opii Amon., B.P., 5 lbs. @ 3/9 lb.; bond 2/7 lb
*Tinct. Opii Aquos., 5 lbs. @ 2/6 lb.
*Tinct. Quiniæ Ammon., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.
*Tinct. Rhei Co., B.P., 5 lbs. @ 2/2 lb.; bond, 8d. lb. [lb.
*Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7½d.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.
*Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond. 8½d. lb.
*Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb.; bond, 8½d. lb.
*Tinct. Zingib, P.B., 5 lbs. @ 4/- lb.; bond, 6½d. lb.
*Tinct. Zingib. Fortior. 5 lbs. @ 4/3 lb.; bond, 10½d. lb.
Treacle (Black), Casks about 5½ gross @ 42/- per Cask; 24 lbs. @ 2d. lb.
Turpentine (Best American), 1 gal. tins @ 3/3 each; Venice, Genuine, 40 lbs. @ 1/4½ lb.; 9 lbs. @ 1/7 lb.

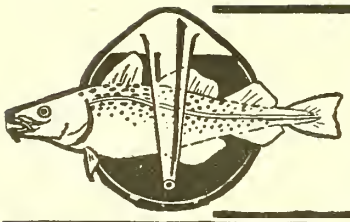
*Minimum quantity at these prices: Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

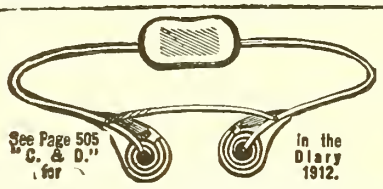


The Waterbury Metabolized Cod Liver Oil Compound (Tasteless and Odourless)
With CREOSOTE and GUAIACOL or PLAIN.
SOLD BY ALL WHOLESALE HOUSES.
Sole British Agents: **THE AMERICAN DRUG STORES COMPANY,** C. BROOKS, M.P.S., Proprietor.
24 Orange Street, Haymarket, London, W.C. (Great Britain).
'Phone—10960 Central. Cable—"Seebrooks London." Telegrams—"Amedrusto London."

ESTABLISHED 1772.
HENRY'S CALCINED MAGNESIA
Continues to be prepared with scrupulous care, in the greatest chemical purity, by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peter's, Manchester,
And is sold in Bottles, authenticated by a Government Stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia."
PRICE 4s. 6d. or 2s. 9d.
NEW YORK: Messrs. SCHIEFFELIN & CO., William Street. PARIS: Messrs. ROBERTS & CO., 5, Rue de la Prix.

ELASTIC GUM SURGICAL INSTRUMENTS.

Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments.
Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*
MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON. E.C



THE "SPIRAL SPRING" TRUSS.
FOR ALL PARTICULARS
APPLY TO THE INVENTORS AND MAKERS,
WILLIAM COLES & Co.Y 5 SACKVILLE STREET, PICCADILLY, LONDON.
Telephone No.: MAYFAIR 2646.

No Emulsions on the market equal in flavour the two leading lines of BOULTON MACRO, LTD, Manufacturers of Chemists' Proprietaries—namely,
CREAM EMULSION
4 oz., 3/6 doz.; 6 oz., 5/6; 8 oz., 6/-; 12 oz., 9/-; 16 oz., 10/
TRIPLE EMULSION
"FERMALTOL."
(finest Lofoten Cod Liver Oil, with Malt and Chemical Food)
1/- size .. .. .. 7/- doz. | 1/9 size .. .. .. 12/- doz.
SPECIAL INTRODUCTORY - ORDER PROPOSITION.
With a first order for 3 doz. Triple Emulsion (either size) we give ½ doz. free, showing the following profit:—

		£ s. d.		£ s. d.
Invoice price, 3½ doz. as 3 doz. ..	1/- size	1 1 0	1/9 size	1 16 0
Selling price, 42 bottles at 1/- ..		2 2 0	1/9	3 13 6
		£1 1 0		£1 17 6
		or 100%		or 104.2%

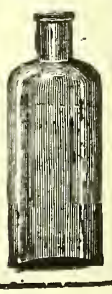
ORDER NOW FROM—
BOULTON MACRO, LIMITED,
Crayford Mills Warton Road, Stratford, E.

THE NEW
'ADAPTABLE' HOT WATER BOTTLE.
(Registered Design.)

Suitable for many purposes for which the old-fashioned shape is useless.
For BED-WARMERS.
For CARRIAGES.
For MOTOR CARS.
For INVALIDS, &c.
Customers can have their names, &c., printed on reverse side.
LOW PRICES. BIG DISCOUNT.
Sole Manufacturers:—
The Fulham Pottery & Cheavin Filter Co., Ltd. FULHAM LONDON, S.W.

DISPENSING BOTTLES, &c.

We are now offering above of first-rate quality,
:: in original packages, at very low prices. ::
SAMPLES & PRICES WILL BE SENT ON APPLICATION.

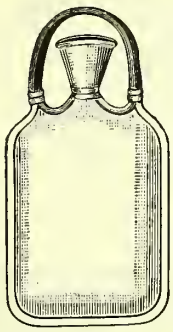


E. YOULDON, LTD.
Carter Street, Maplin Street, MILE END, LONDON, E.
ESTABLISHED 1840. Telegrams: "Youldon London." Telephone: East 132.

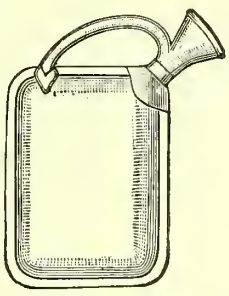
REDUCED PRICES.

INDIA RUBBER HOT WATER BAGS.

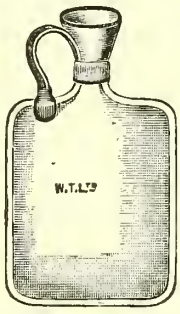
:: Guaranteed of Best English Manufacture. ::



457.



458.



1474.

Toogood's Special Quality, Figs. 457 or 1474—

8 x 6	10 x 6	10 x 7	10 x 8	12 x 6	12 x 7	12 x 8	12 x 10	14 x 7	14 x 8	14 x 10	14 x 12	16 x 10	
3/1	3/5	3/10	4/-	3/10	4/4	4/7	5/3	5/-	5/2	5/9	7/-	7/-	each.

Warne's Extra Super Quality, Fig. 457 or Burbridge's Patent, Fig. 458—

8 x 6	10 x 6	10 x 7	10 x 8	12 x 6	12 x 7	12 x 8	12 x 10	14 x 7	14 x 8	14 x 10	14 x 12	16 x 10	16 x 12	
3/4	4/2	4/3	4/10	4/3	5/-	5/6	6/1	5/6	6/1	7/-	8/6	7/9	9/-	each.

On Toogood's Special, in 1-dozen lots assorted, and upwards, an extra 5% is allowed.
On Warne's Super " " " " 2½% "

WILLIAM TOOGOOD, LIMITED, 77 Southwark Street, London, S.E.

BOTTLES:

:: YORKSHIRE MAKE. ::

DISPENSING as illustrated. Plain or Graduated

1½ & 2 oz.	3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.
6/9	7/-	8/-	12/-	13/6

16 oz.	20 oz.	
18/-	19/6	per gross.

GREEN PANELLED (three sides)
1/- per gross extra to above prices.

GREEN PANELLED HEAVY (for Cough Mixtures)
2½ oz. 7/6; 5 oz. 9/- per gross.

POISON. Oval Ribbed, Pale Green (for Ammonia)

3 & 4 oz.	6 & 8 oz.	10 oz	12 oz.	16 oz.	20 oz.	
9/-	10/-	13/-	14/6	18/6	21/-	per gross.

TERMS: NET CASH 7 DAYS. CRATES 1/- EACH.

Carriage paid up to 100 miles ex. Leeds (small extra charge beyond that distance).

THOMAS SWALES,
24 BUTTS COURT, LEEDS.

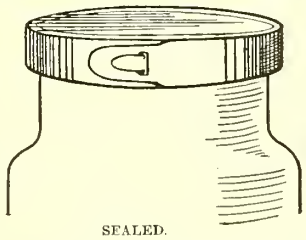
Telegraphic Address: "Advertence Ave London." Telephone: Lon. Wall 2994

The AIRTIGHT CAPSULES CO. Ltd.

Suppliers of PHŒNIX, AUTOMATIC, SCREW CAPS, &c.

The ideal and only absolutely Hermetically Sealed Cap for all classes of Glass Packages as used by all Manufacturing Chemists.

PHŒNIX HERMETICAL CLOSURE.



SEALED.

The following firms, amongst others, have adopted the Phœnix system, in conjunction with the Firtree disc, with unqualified success.

FIRTREE ANTISEPTIC

Trade Mark.

Messrs. THE BRITISH DIA MALT CO.
Messrs. COODALL, BACKHOUSE & Co.
Messrs. CALDERS YEAST CO., LTD.
Messrs. VIROL, LTD.
Messrs. HARKNESS, BEAUMONT & CO.

This Firtree disc is used in conjunction with Phœnix and Screw Caps for Malt Extracts, &c., and is supplied under registered Trade Mark, and is guaranteed pure for use with Food-stuffs according to the Act.

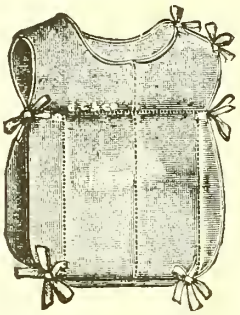
Fullest information with quotations on application.

Offices and Showrooms } 317, 318, 319 DASHWOOD HOUSE, NEW BROAD ST., LONDON, E.C.

Zudor Jackets

(PATENT)

Recommended for CHEST AND LUNG AFFECTIONS.



For PNEUMONIA, BRONCHITIS, AND ASTHMA.

☛ ***Now the Cold Weather has come, Zudors should form part of every Chemist's stock.***

Size	1	2	3	4	5	6
Per doz.	6/-	7/6	9/-	10/6	12/-	15/-

WRITE FOR FULL PRICE LIST
:: OF DRUGGIST SUNDRIES. ::

CUXSON, GERRARD & CO., Ltd.
OLDBURY.

POND'S SPECIALITIES FOR BUNIONS AND TIRED FEET

PROFITABLE SELLING LINES.

Pond's Toe-spring for Bunions, 30/- doz. Retail, 3/9 each
Pond's Supports for Weak Feet, 36/- „ „ 4/9 & 5/6 pair

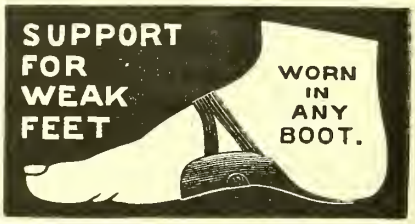
POND'S "IDEAL" SUPPORT,

Best Tempered English Steel. PATENTED.
PREVENT FLAT FEET.

36 Church Street, Fleetwood, / Aug. 15th, 1904.

In every case our customers speak very highly of your supports. They always give satisfaction, and need to be more widely known.

Yours truly,
S. C. ROSCOE,
Central Boot Stores



EVERY ARTICLE Guaranteed or Money Back.

AGENTS { Newbery & Sons, Ltd., Charterhouse Square. E.C.
Sangers, 42 Hampstead Road, London, N.W.
Rimmington & Son, Bridge Street, Bradford.

Send for Samples and Printed Advertising Matter direct to
H. J. POND, Arch Support Manufacturer. CASTLE MEADOW, NORWICH

RENDELL'S

SOLUBLE QUININE PESSARIES.

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK***, are upon each box thus:

Registered Trade Mark, ☛ without which none are genuine. No. 182,688.

W. J. Rendell No. 182,688.

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

☛ **IMPORTANT NOTICE AND CAUTION.** ☚

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,

INVENTOR AND SOLE MAKER,

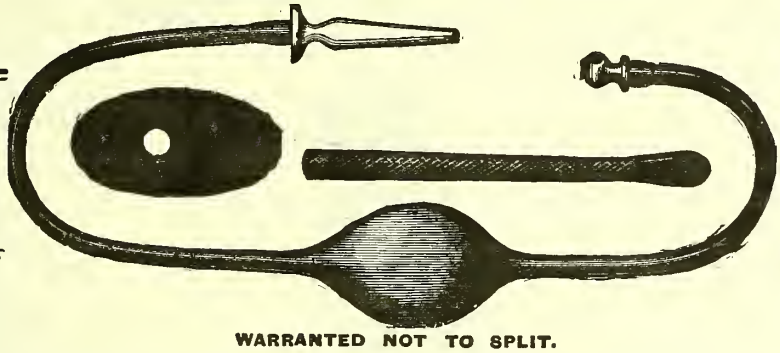
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

CHEAP SEAMLESS ENEMA.

SPECIAL LINE No. 1530.

GUARANTEED FOR 2 YEARS.

15/- doz.
COMPLETE IN CARD BOX.



15/- doz.
COMPLETE IN CARD BOX.

WARRANTED NOT TO SPLIT.

This is a full-sized black polished Enema, suitable for a cutting trade. For higher-priced Enemas try our well-known "Saffron," "Empire," and "B.E.M." brands, from **16/6** doz. to **36/-** doz.

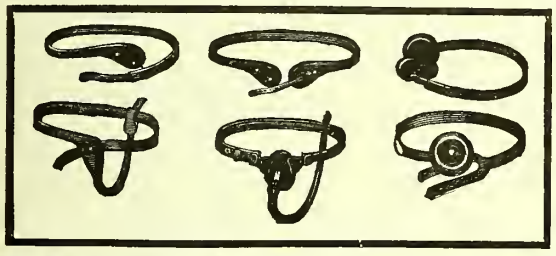
5% discount allowed for prompt cash off above prices. Carriage paid on orders of **£2** and upwards.

We are the right House for Bathing-Caps, Catheters, Enemas, Elastic Hosiery, Hot-Water Bottles, Injection Syringes, Pessaries, Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST, POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LIMITED,
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

BAILEY'S



TRUSSES

WHOLESALE. } ACTUAL MAKERS.
BEST QUALITY. } BOTTOM PRICES.

MADE ON THE PREMISES.

Specials Despatched in 24 hours.

Illustrated Price List free.

		Double
Bailey's Circular Trusses	23/-	37/-
" " " 2nd quality ...	16/9	31/6
" Special "Marone," with Customer's Name in Gold	26/-	43/-

Correspondence invited. Best Shipping Terms.

38 Oxford St., LONDON, W.

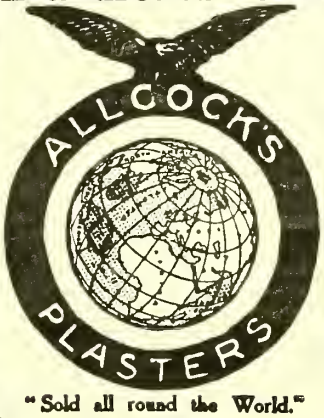
The Original and only Genuine

Allcock's

POROUS PLASTERS

A REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
} *The Three Reliables.*



"Sold all round the World."

A HANDSOME SHOWCARD will be sent free of cost and post paid on application.

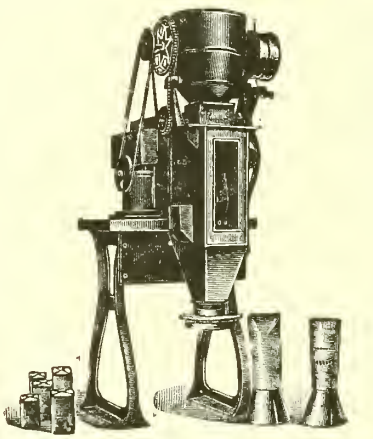
ALLCOCK MANUFACTURING COMPANY
22 Hamilton Sq., Birkenhead.

AUTOMATIC WEIGHING AND PACKING MACHINES

FOR POWDERS, SEIDLITZ, FOODS, ETC.

THESE MACHINES ARE WEIGHERS AND NOT MEASURERS, AND ARE STAMPED BY WEIGHTS AND MEASURES INSPECTOR.

WE CAN REDUCE YOUR COST OF PACKING BY 50% AND WE ARE PREPARED TO FIX A MACHINE IN YOUR WAREHOUSE AND PROVE IT TO YOU FREE OF COST TO YOURSELVES.



THE MACHINE DOES THE WORK, THE OPERATOR FEEDING AND TAKING AWAY TINS OR PACKAGES.

SEND A POSTCARD WITH YOUR REQUIREMENTS AND WE WILL FORWARD FULL PARTICULARS OF OUTPUT, PRICES, ETC.

SOUTHALL & SMITH, VILLA ST. WORKS, BIRMINGHAM.

Large Label Buyers !!

WE WANT YOUR ORDERS

Prices Right
Work Excellent
Prompt Delivery

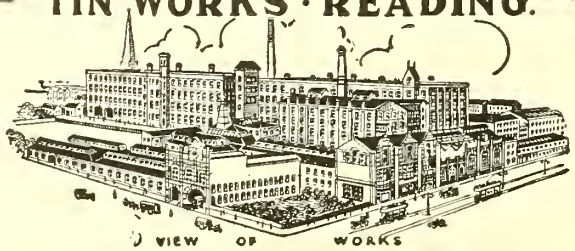
WRAPPERS in COLOR a Speciality

CLYDE PRESS, Dunbar St., West Norwood, S.E. Telephone : Sydenham 228

HUNTLEY, BOORNE & STEVENS, LTD

TIN WORKS · READING.

COLOR PRINTERS ON TIN



VIEW OF WORKS

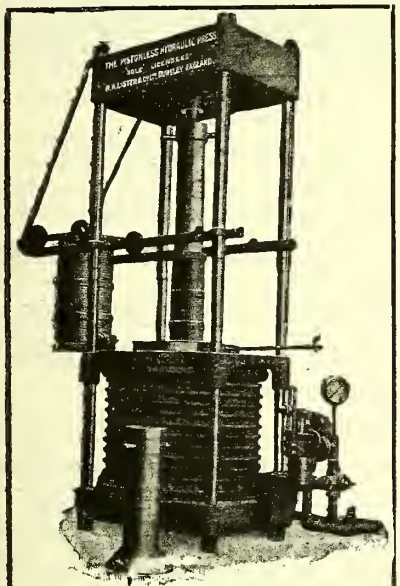
MAKERS OF HIGH-CLASS DECORATED & PLAIN TIN BOXES & SPECIALITIES FOR CHEMISTS

QUOTATIONS TO SAMPLES OR DESCRIPTIONS

CORRESPONDENCE INVITED.

TELEGRAMS "HUNTLEY'S READING" NATIONAL TELEPHONE

THE
PISTONLESS HYDRAULIC PRESS


8-Gallon Tincture Press.

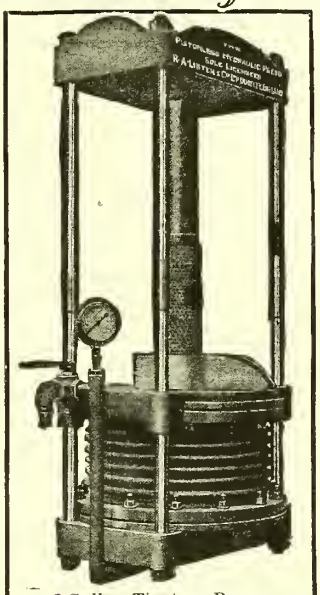
FOR EXTRACTING ESSENCES, &c., BY A METHOD FAR CHEAPER THAN DISTILLATION.

THIS PRESS WORKS DIRECT FROM THE WATER MAIN.

Requires No Pumps; No special foundations. No Ram, Glands, or Cup Leathers.

Cheap to Buy. Cheap to Run.
Cheap to Maintain.
Economy with Efficiency.

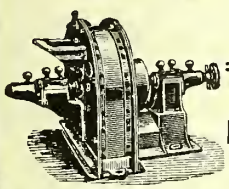
Recommended for recovering Spirits from spent marcs.


2-Gallon Tincture Press.

R. A. LISTER & CO., LTD. (PRESS DEPT.), DURSLEY, GLOS.

GRINDERS

For All Purposes.



Write for Lists.

THE HARDY PATENT PICK CO. Ltd.
SHEFFIELD, ENG.

You want this Stove in YOUR Stores.

It provides a warm and congenial atmosphere for your customers, and better facilities for your assistants to make sales.

CLARK'S Patent
SYPHON STOVE

generates only PURE HEAT without Smoke or Smell. It can be brought into operation at a moment's notice. There is always that inviting and cheerful glow whether for GAS or OIL, and all products of combustion are scientifically condensed within the stove which dispenses with flue outlet. Highly economical and made in new artistic designs and finishes. It is the stove for all who wish to increase the congeniality of their service. It is the stove for YOU.

Our little Booklet will interest you and will be sent FREE if you write stating whether for Gas or Oil to Dept. C.

CLARK'S SYPHON STOVE CO., LTD.,
132, Queen Victoria Street, E.C.

The only hygienic FLUELESS STOVE.

The Public Demand

for Seccotine continues to grow. Fresh uses for it are constantly being discovered—every one of which is a fresh reason why you should stock it, because each new use means many new users.

SECCOTINE

STICKS EVERYTHING

and is also much used by Ladies for restoring Silks, Laces, and many other materials to their original freshness.

You will find it very valuable in cementing business good-will.

If you have not a good stock —send your order now.—

M'CAW, STEVENSON & ORR, LTD.
BELFAST.
31-32 SHOE LANE, LONDON, E.C.

FRED^K. FINK & CO.
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES: Gums Arabic and Tragacanth as imported or finely powdered—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

PRECIPITATED CHALK.
LIGHTEST, WHITEST AND PUREST QUALITIES
APPLY TO—
AUG. LEVERMORE & Co., Ltd, 8/10 St. Helen's, LONDON, E.C.
Telegrams: "Levermore London." Telephone: 4513 Central.

W. WIDE AWAKE BORIC OINTMENT BUSYTOWN
TINS FOR COLD CREAM, LANOLINE, "VASELINE," CAMPHOR ICE, MENTHOL SNUFF, COCOANUT OIL, PINE TREE LOZENGES, BROMPTON LOZENGES, Etc. Etc.
Ask for particulars of "Own Name" Ointment Tins, as drawing. Every Chemist should have them.
SHIRLEY BROTHERS, LTD.,
"X" Series Tins, Whitecross Works, LONDON, S.E.

ARE YOU GETTING THE BEST RESULTS?
If NOT, try
H. GARTHWAITE,
The Old Established Dental Mechanic,
Crown Chambers, Goldsmith Street, NOTTINGHAM.
Write at once for Price List.

Dentistry
FOR CHEMISTS & DENTISTS
Write for Price List
A.G.FENTIMAN
190 BISHOPSGATE, LONDON, E.C.

ENEMAS, SPRAYS, DOUCHES, & SURGICAL RUBBER GOODS.
Write for List
X. L. RUBBER CO. Broadheath Rubber Works, ALTRINCHAM.

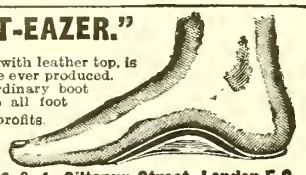
"SILVERY WHITE GUTTA PERCHA ENAMEL"
TOOTH STOPPING

P. A. STEVENS, *Surgeon-Dentist,*
Mansfield Rd., S. Hampstead, N.W.
Sole Proprietor & Manufacturer.
TRADE MARK. Registered No. 2745. Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.

SPECIALISTS IN THE MANUFACTURE OF
TRUSSES IN LEATHER, HARD RUBBER, CELLULOID, &c.,
SUSPENSORY BANDAGES, AND BELTS,
SUPERIOR QUALITY AND WORKMANSHIP.
Samples and Quotations on application to
F. SCHUTZE & CO., LTD., Black Bull Works,
CALEDONIAN MARKET, LONDON, N. (3)

TAVERNER & SONS, Ltd.,
40 Ridley Rd., Dalston, London, N.E.,
Manufacturers of all kinds of GUM ARABIC GOODS, Pastilles, Jujubes, &c.
Established 1850.

VAN HORN & SAWTELL
—LONDON & NEW YORK— MAKERS OF
K-Y LUBRICATING JELLY
IN COLLAPSABLE TUBES, AND OF
***"Van Horn"* STERILE SUTURES & LIGATURES**
IN GLASS TUBES — PRICES ON APPLICATION.
31-33 HIGH HOLBORN, W.C.

SCHOLL'S "FOOT-EAZER."
Made of two German Silver Springs, with leather top, is the most practical foot-resting device ever produced. Light and springy, worn in the ordinary boot unnoticed, it gives instant relief to all foot troubles. Gives the Chemist big profits. Our free Booklet "Scientific Correction for Ailments of the Feet" sent on application.

THE SCHOLL MFG. CO., Ltd., 1 2 3 & 4, Giltspur Street, London, E.C.

TO WHOLESALE BUYERS & SHIPPING MERCHANTS ONLY.
FOR ALL KINDS OF
CAPSULES & PERLES.
Hand-made or Machine-made, **"TYE'S"** will ensure purity of contents and best finish. Specially prepared to suit all climates.
JOHN TYE & SON — Manufacturing Chemists,
(Established 1845), PACKINGTON STREET, LONDON, N.

PURE PEPPERMINT OIL
Excellent quality and very strong.
Grown and Distilled by
M. & A. C. BING, *LAVENDER DISTILLERY, GROVE FERRY, KENT.*

LYMPHOID COMPOUND (Lowenthal)
LYMPH SERUM (Lowenthal)
OVAMAMMOID COMPOUND (Lowenthal)
Supplied to the Medical Profession only (or on Prescription) SOLELY BY THE
BRITISH ORGANOTHERAPY CO., LTD.,
Carlton House, Lower Regent Street, London, S.W.
Telephone—7111 Gerrard. Telegrams—"Lymphold London."

DISINFECTANTS
OF ALL KINDS.
Cheapest Makers of Co-efficient Acids and Fluids.
HENRY ELLISON, LTD., CLECKHEATON, Yorks.

ARSENIATE OF LEAD, Paste and Powder, SODA ARSENIATE and ARSENITE, EPSOM SALTS, GLAUBER'S SALT, WHITE COPPERAS (Zinc Sulphate), CHLORIDE OF ZINC, Solid, Granulated and Liquid, CHLORIDE OF TIN CRYSTALS.
WILLIAM BLYTHE & CO., LTD.
CHURCH, LANCS.

ALEXANDRE'S
SHADEINE
FOR COLOURING GREY HAIR.
This popular article is largely advertised and stocked by all Wholesale Houses.
TRIAL BOTTLES 6d. size, supplied on pretty showcards.
4/- per doz.; 8/6 size, 28/- per doz.
58 WESTBOURNE GROVE, LONDON, W.

Papier Poudre
POPPOEA PREPARATIONS
Good Profit to Chemists, &c.
Price List from
PAPIER POUDRE, Ltd.,
23 Somerset St., London, W.

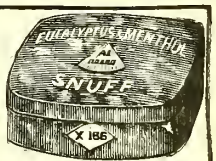
DENTISTRY
(Mechanical).
EXPERT WORKMANSHIP. PROMPT SERVICE.
POPULAR PRICES. GUARANTEED MATERIALS.
"Dentistry for Chemists" post free. "Everyday Dentistry," 3/6.
F. C. WARDALE & CO., 132 High Street North, East Ham.
Tel. No.: East Ham 174. Tel. Address: "Eladraw London."

'TULIP NIGHT LIGHTS AND NON-DROP TAPERS.'
SOLE AGENTS FOR U.K.:
PRESCOTT & CO., 63 Corporation St., Manchester.

J. PRIMER,
302 Essex Road, London, N.
Manufacturer of
Ext. Alni Liq. Conc.
A remedy employed in cases of malignant disease.

Imitation Oak.

MENTHOL and MENTHOL & EUCALYPTUS SNUFFS.
Both Profit Bringers!
On the P. A. T. A.
3½d., 1/10 per dozen,
6 dozen lots, 1/8,
5 gr'ss lots 16/6 per gr'ss



Imitation Tortoiseshell.

SHIRLEY BROS., Ltd., Whitecross Works, London, S.E.

DENTISTRY FOR DENTISTS
by A. J. FENTIMAN, Dentist (Fentiman & Co.).
Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases (Angles'), Obturators, &c.
Telephone: 9977 London Wall. Telegrams: "Lullingly London."
Postal—East Smithfield, Tower Bridge. Established 1835.
NO OTHER ADDRESS.

ON P.A.T.A. LIST.
CHAMELEON OIL.
NO NEED TO RUB.
CURES Rheumatism, Lumbago, &c.
THE CHAMELEON OIL CO., Ld., 45 Eden Grove, HOLLOWAY, N.

First-Class Mechanical Dentistry.
Reliable workmanship. Popular prices. Moderate charges for gold. D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M.Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a specialty. Special cheap rates for show case pieces. 16 years' experience of first-class mechanical dentistry.
E. O. HALDER, 46 New Cross Road, LONDON, S.E.

KILLS NITS!
TO BE OBTAINED OF ALL
WHOLESALE SUNDRIES HOUSES
AND OF
'NYTO' PREPARATIONS, LTD.
ST. JAMES' WALK,
CLERKENWELL, E.C.
2d. per Packet.

NEWNHAM BROWNE & CO.
(John E. Raworth, Chartered Patent Agent, Sole Partner).
PATENTS, TRADE MARKS AND DESIGNS.
City Office: 78 CHEAPSIDE, E.C.
Head Office: QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

R. MANSON,

Culvert Works,
Culvert Road,
S. TOTTENHAM, LONDON, N.
THE "CULVERT"
Crepe Paper Toilet Rolls.
Invaluable for Hospitals and Sick Room. Wholesale and Export.

TOBACCOS! CIGARS! CIGARETTES!
Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.
SINGLETON & COLE, Ltd., Cannon Street, BIRMINGHAM, AND BRANCHES.

ZEPTO
THE SURE SELLER.
P.A.T.A. 7½
WRITE FOR LATEST SALES SCHEME
THOS. CHRISTY & Co. Old Swan Lane, E.C.
PRICE 4/6

DENTAL TOOLS & MATERIALS.
Teeth, Rubbers, Anæsthetics, Chairs, Engines, etc.
Low Prices. First Quality. **NEW CATALOGUE POST FREE.** Write for Quarterly Journal.
C. J. PLUCKNETT & CO., LD. 29-30 Poland St., Oxford St., London, W.

A POWERFUL NERVE AND BRAIN FOOD

VISEM
(Seed of Strength)

VISEM consists of milk casein and whey powder, with 3% of pure lecithin-ovo and 3% of glycero-phosphate of soda. The casein used is made from milk produced on some of the finest pastures in the Kingdom, by a special process which yields a pleasant flavour, and retains the proteins in a soluble state. It is also rich in soluble organic phosphorus.

VISEM is made up in the form of tablets, which are eaten like biscuits. These tablets can be taken at any time and under any circumstances, and are obviously more convenient than preparations which have to be dissolved in hot water, milk, &c. It has an agreeable flavour which is distinctly superior to that of any other casein preparation.

VISEM is being largely and effectively advertised in the great national newspapers.

VISEM is also extensively advertised in the medical journals and doctors are largely prescribing it.

Beautiful showcards and interesting literature will be supplied to the trade.

Price 13/6 per dozen boxes.

P.A.T.A. Minimum re-selling price 1/6 per box.

APLIN & BARRETT, etc., LTD., Yeovil, Somerset,
and 33 Park Road, Battersea Park, London, S.W.
(WHOLESALE DISTRIBUTORS FOR ST. IVEL, LTD.)

Lofthouse & Saltmer, Ltd.

**——Wholesale and Export Drug——
Merchants, Manufacturing Chemists,**

HULL,

invite the attention of the Trade to the following well-tried preparations, which carry a big P.A.T.A. retail protected profit, and are well known and valued by the public in many parts of the country.

	Protected Retail Price.	Doz. net.
Losall's Asthma Remedy. Very effective Remedy for Asthma, bronchitis, &c.	1/-	7/6
Losall's Salt. The popular remedy for Eczema, Gout, Rheumatism, and Billiousness. Well advertised.	6d.	3/6
	1/-	7/-
	1/6	10/6
Losall's Compound Sulphur Soap. A valuable emollient medicated Skin Soap, especially for use in Eczema cases.	1/-	8/-
Losall's Ball Room Floor Polish. Produces a smooth surface beneatb the Dancers' feet. No dust.	1/-	7/-
Malted Food. Usual 1/- size, lever lid tins, name and address free on 3 dozen. Special design label with name and address on gross orders, if desired.		4/6

London Agents: F. NEWBERY & SONS, Ltd.

YOU SHOULD STOCK

Sister Lauras Food

The Best Food for Infants, Invalids, and the Aged.

This Food has a Hospital Record of fully 14 years—a record of unrivalled success.

Makes Milk Digestible. Made in a moment, and has a quick and ready sale. Once tried, always used. Literature, Showcards, &c., direct. Liberal Window Display terms. Sample Tin on receipt of memo. Your Wholesale Agent can supply you. Retail Price, 1/- per tin. Wholesale Price, 9/6 per dozen (ou P.A.T.A. List).

SISTER LAURAS INFANT FOOD CO., Ltd.
156 St. Vincent Street, GLASGOW.

PURE EGG LECITHIN

LECITHIN EX OVO

LECITHIN-ALBUMEN POWDER

For the manufacture of Tablets, Chemical Foods, Nerve Tonics, etc.

LECITHIN FOOD PREPARATIONS

Prepared with 2½%, 5%, or 10% of PURE Lecithin in bulk, or in boxes or cartons.

LECITHIN TABLETS, DRAGEES, PILLS or CHOCOLATE,

Prepared by Chemical Works "Victoria," Berlin, S.W.

Sole Agent for U.K.:

HUGO LORENZ, 7 & 8 Idol Lane, London, E.C.

Write for Pamphlets. Tel. Nos.: Avenue 5945; Central 12641.

Order your Stocks early

and be ready to sell Bovril as soon as the Public is ready to buy. Messrs. BOVRIL Ltd. are offering again this year the special

5%

Cash Bonus

on all orders received between September 16th and October 31st inclusive. This Bonus, it should be remembered, is computed on the GROSS Purchases.

The record demand for Bovril last year will, in all probability, be exceeded during the coming season; therefore fill your stocks at once. Bovril sells quickly and consistently the whole season through, and there is a liberal profit on the sales. But remember, there is only one Bovril—there may be other goods that look like Bovril, but they don't sell as BOVRIL Sells.

For full particulars of Trade Terms and Bonus Offer apply to BOVRIL LTD., 152-166 Old Street, London, E.C.

BOVRIL

TO SWELL YOUR BANK BALANCE

INCREASED RETURNS—THE ONLY WAY.

What nearly every Chemist to-day feels *most in need of IS INCREASED RETURNS.* His profits are not what they were, his expenses constantly tend upwards, and competition was never so keen.

Diagnosis is easy, the remedy not always apparent, for to increase returns more custom must be *brought in.*

DROP US A POST-CARD TO-DAY *for Sample Packet and Terms.*

We are prepared to show you how we will ***help you*** to largely ***increase your returns.***

IT WILL COST YOU NOTHING!

Then why not investigate?

SUMNERS TYPHOO TEA LIMITED.
HEAD OFFICE. (FOR ALL CORRESPONDENCE)
CASTLE ST BIRMINGHAM.
LONDON { CLEARING OFFICE: LLOYDS AVENUE HOUSE: E.C.
BONDED STORES: COMMERCIAL ROAD: E.

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by '*The British Medical Journal*,' '*Health*,' '*The Chemist and Druggist*,' '*Food and Sanitation.*'

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

Telegrams: "OVICITHIN LONDON."

BLATTMANN'S PURE EGG

Telephone: HOLBORN 6192.

LECITHIN,

LECITHIN ALBUMEN, & LECITHIN MILK in powder form for the manufacture of Tablets, Pastilles, Foods, etc.

EGG PHOSPHATIDS a preparation containing 10% P_2O_5, soluble in Meat Juice, Liquid Foods, and particularly in Tonic Wines.

BROM-PHOSPHATID 8% P_2O_5, 20% Bromine.

PHOSPHATID TONIC SYRUP

IOD-PHOSPHATID 8% P_2O_5, 20% Iodine.

PLEASE SEND FOR OUR LATEST PRICES.

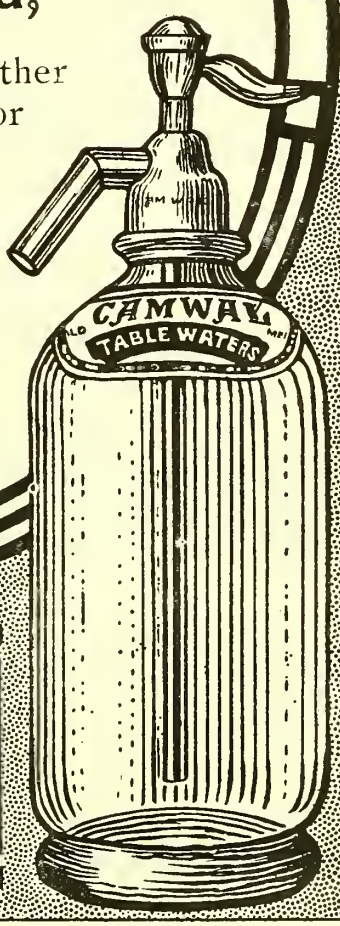
G. M. WILLIAMS & CO., 47 Lamb's Conduit Street, LONDON, W.C.

The Brand of High Reputation

Using none but the most modern Hygienic Plant and the finest Chemicals, using the most efficient Filters known to Science, conducting all its processes in Sanitary and Well-equipped Premises, and studying the Uniformity as well as the Purity of its products,

CAMWAL, Limited,

stands absolutely at the top; and whether required for the Sick-Room or for the Dining-Room, "CAMWAL" TABLE WATERS may be relied upon as meeting the most stringent requirements. They are high-class productions, manufactured under the vigilant control of qualified Chemists.



SAMPLES, LITERATURE, &c., FROM

"CAMWAL" Limited,

Head Office: 112 PEMBROKE STREET, N.

LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE & MITCHAM.

Prompt Sales
Increasing Demand
Quick Turnover

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., LIMITED,
Wincarnis Works, Norwich.

WINCARNIS

BRILLIANT PLATE.
"ALBATUM OR WHITE ROUGE"
GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTRO-PLATED GOODS.
In 6d. and 1/- Boxes, and Tins, 2/-
BRADLEY AND BOURDAS,
6 PONT STREET, S.W.

INDEX and BUYERS' GUIDE

See pages 5 to 9.

Telegraphic Address: "Champagne Manchester." Telephone: 138 Pendleton.

B. ROBINSON & Co., LTD., PENDLETON, MANCHESTER.

Established 1855. **ORIGINAL** Excise Drawback on Export Orders.

CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.) 4/- per lb.	Aqua Cassiæ Conc. ... ... 4/- per lb.	Aqua Menth. Virid. Conc. ... 4/- per lb.
,, Anethi, Concent. ... ... 4/- ,,	,, Flor Aurant. ... ... 8/6 ,,	,, Pimentæ ,, ... 4/- ,,
,, Anisi ,, ... 4/- ,,	,, ,, Sambuci Conc. ... 8/6 ,,	,, Pulegii ,, ... 4/- ,,
,, Camphoræ ,, ... 4/- ,,	,, Fœniculi Conc. ... ... 4/- ,,	,, Rosemarini ,, ... 4/- ,,
,, Carui ,, ... 4/- ,,	,, Menth. Pip. Conc. ... 4/- ,,	,, Rosæ ,, ... 8/6 ,,
,, Cinnam. Ver. Conc. ... 6/- ,,	,, ,, Ang. Conc. ... 6/- ,,	,, ,, Virgin ,, ... 10/6 ,,

The above may be had in ¼-lb., ½-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.
Each Bottle has the inventor's Protection Label over the Cork, without which none are genuine.

PURE ORANGE WINE

(VINUM AURANTII, B.P. 1898). Samples of any of the above, sent free on application.

THE NATURAL MINERAL WATER OF
VICHY-CÉLESTINS

(STATE SPRING.)

For DISEASES of the KIDNEYS, GRAVEL, GOUT, RHEUMATISM, DIABETES, &c.

VICHY-ETAT PASTILLES

Two or three Pastilles after each meal facilitate digestion.

CAUTION.—Each bottle from the STATE SPRINGS bears a neck label with the word "VICHY-ETAT" and the name of the SOLE AGENTS :—

INGRAM & ROYLE, LTD.,
Bangor Wharf, 45 Belvedere Road, LONDON, S.E.
And at LIVERPOOL and BRISTOL.

Humphrey Taylor & Co.
By Appointment Liqueur Distillers to H.M. The King.

JUNORA
WINE OF HEALTH

This delicate, dry wine makes the most piquant and appetising of all cocktails. Blended, as it is, with choice herbs and the organic phosphates of Lecithin Ovo, it has a wonderful power of increasing both appetite and energy.

Proprietors—HUMPHREY TAYLOR & Co., Ltd. (Est. 1770), 45 New Oxford Street, London, W.C.

VITTEL
VOSGES, FRANCE.

Vittel Spa has many attractions for visitors.
Full particulars on application

GRANDE SOURCE.
The TABLE WATER for Arthritis, Gout, and Kidney Troubles. . . . .

SOURCE SALÉE.
The TABLE WATER for Constipation, Complaints of the Liver and Stomach, Gall Stones, Glycosuria, &c. . . . .

10,000,000 BOTTLES SOLD ANNUALLY.

VITTEL, 12 Mark Lane, LONDON, E.C.

STIPENDUM CORK STOPPERS

In all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples and particulars apply to

The

Stipendum Stopper Co.

1 Newman Street, LONDON, W.

[Tel. No. 3769 GERRARD.

"TOINOCO SILKY-FIBRE"

stands for the original and Popular **Gold Medal** brand of

PAPER HANDKFS

None genuine save with our Registered label and seal, "TOINOCO SILKY-FIBRE."

50, 1s. Regularly advertised. P.A.T.A. Face Price At all Wholesale Houses or the Proprietors,

J. T. POWELL & CO., 94 Hatton Garden, London, E.C.

Press Cuttings

¶ Everything and anything that is printed in any newspaper anywhere can be supplied by

The Central News,

Press Cutting Department, 5 New Bridge St., London, E.C.

The Central News Agency has been established over forty years.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: JAMES STIRTON, 23 ST. DUNSTAN'S HILL, E.C.

SODA-WATER MACHINERY.

By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.

THE "COMPACT" MACHINES

are specially designed for

CHEMISTS, GROCERS, RESTAURATEURS,

and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

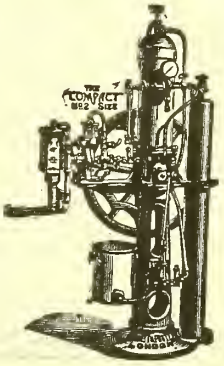
OCCUPY LITTLE SPACE!

ARE READY FOR USE IMMEDIATELY!

REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



A COMPLETE APPARATUS—CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY —FROM £20.

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26T Eagle Wharf Road, N.

Proprietors of Galloway Bros., Bolton.

Advertised in Almost Every Journal Devoted to Farm and Horse Interests

AND UNDENIABLY EFFICIENT & POPULAR.

You profit to the extent of **2/-** on every bottle sold, and by our Scheme we practically ensure you REGULAR CUSTOM.

INVESTIGATE OUR OFFER, IT WILL PAY YOU!

Thos. CHRISTY & Co., 4-12 Old Swan Lane, E.C.

ABSORBINE

VETERINARY SPECIALITIES

"VETUNG."—A powerful Antiseptic Ointment. Emollient, Healing, Deodorant

ANTHELMINTIC POWDER.—Supersedes Santonin preps.

CONDITION POWDER.—Nutrient, Tonic-Laxative, Diuretic. Rectifies deficient bone growth.

GAME AND POULTRY MEDICINES.

A wide range of really high-class products
— EXTENSIVELY ADVERTISED. —

The above specialities yield a profit of **33%** to the retailer.

Stock them. They will be asked for.

"The Poultry Pharmacopœia" free on request.

A. DINSLEY, 10 Essex St., STRAND, LONDON, W.C.

3,000 Rats a Year

Sir C. Elliot, Sydmonton Court, Berks, writes: "My Head-Keeper reckons that 'Rodine' accounted for over 3,000 rats last year."

60 RATS FOR 6d.

Mr. Foster, Chemist, Collumpton, Devon, writes: "A customer picked up 60 dead rats after using a 6d. tin of 'Rodine.'"

RODINE RAT POISON.

Retail Prices: **6d., 1/-, 2/-, 3/-, 5/-.**
Prices to Appointed Agents only: Trade Terms, **3/3, 6/6, 13/-, 19/6, 32/6** doz. Min. Carriage Paid Order, **20/-.** Smaller Lots, **4/-, 8/-, 16/-, 24/-, 40/-** doz. *For immediate option of Sole Agency, apply to the Maker—*

HARLEY, Chemist, PERTH.

Are YOU Selling Corvusine D.G.?

THE WONDERFUL NON-POISONOUS
—— LIQUID SEED DRESSING. ——

IF NOT! WHY NOT?

YOU ARE MISSING LUCRATIVE BUSINESS.

Write at once for Trade Terms and other Particulars from—

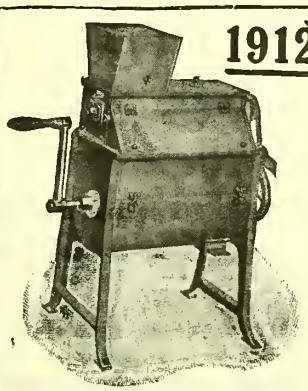
ARTHUR E. HAWKER, 59 Mark Lane, LONDON, E.C.

CHLORIDE OF LIME

In Packets, ¼ lb., ½ lb., and 1 lb.; also in Tins, ¼ lb., and upwards.

Trade Mark.

THE UNITED ALKALI CO.
LIMITED,
Greenbank Works, ST. HELENS, LANCS.



1912 Mixing, Grinding & Sifting Machines.

60 SIZES & PATTERNS.
Hand or Power.

Made by Chemists for the Chemical Trade.

Send for List.

Comet Chemical Company, Ltd.
36 Victoria Buildings,
MANCHESTER.

VALDA PASTILLES.

UP-TO-DATE LABORATORIES AND WORKS,
13 Hythe Road, Willesden Junction, London, N.W.

VALDA PASTILLES are being advertised all over the country. There is no town in the Kingdom where VALDA PASTILLES and their claims will not be put before the public.

In view of the demand which such advertising is bound to create, it would be well to command a stock of VALDA PASTILLES, either direct or through wholesale houses.

Don't be taken unawares. Avoid dissatisfying customers by not stocking VALDA. Let your customers know you stock VALDA PASTILLES.

Appended is a list of the principal Wholesale Druggists and Sundriesmen who supply VALDA PASTILLES.

LONDON.
Burgoyne, Burbidges, & Co.
Sangers
Butler & Crispe
May, Roberts & Co., Ltd.
W. Edwards & Son
Barclay & Sons, Ltd.
Newbery & Sons, Ltd.
Wilcox, Jozeau & Co.
Hovendens & Sons, Etc.

LIVERPOOL.
Evans Sons Lescher & Webb, Ltd.
J. Thompson, Ltd.
Ayrton, Saunders & Co., Ltd., Etc.

MANCHESTER.
J. Woolley, Sons & Co., Ltd.
Oldfield, Pattinson & Co., Etc.

BIRMINGHAM.
Southall Bros. & Barclay, Ltd.
British Sundries Co.

LEEDS.
Hirst, Brooke & Hirst, Ltd.
Goodall, Backhouse & Co.

MIDDLESBROUGH.
W. Coltman

HULL.
Lofthouse & Saltmer, Ltd.

YORK.
Raimes & Co.
Bleasdale, Ltd.

THIRSK.
W. Foggitt & Sons

NEWCASTLE.
J. Ismay & Sons
Wilkinson & Simpson, Ltd.

BRISTOL.
Ferris & Co., Ltd.
Evans, Gadd & Co., Ltd.

EXETER.
Evans, Gadd & Co., Ltd.

GLASGOW.
Cockburn & Co., Ltd.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
W. & R. Hatrick & Co.
T. & H. Smith, Ltd.
F. Spite & Co., Ltd.
James Taylor

EDINBURGH.
Duncan, Flockhart & Co.
Raimes, Clark & Co., Ltd.

DUNDEE.
Davidson & Gray.

ABERDEEN.
W. Davidson, Ltd.
W. Paterson & Sons

DUBLIN.
May, Roberts & Co., Ltd.

BELFAST.
McMullan & Co.
J. & J. Haslett, Ltd.

SPECIAL TERMS FOR CASH WITH ORDER.

1 dozen Boxes	-	-	£0 11 6
6 dozen Boxes	-	-	3 7 6
1 gross Boxes	-	-	6 12 0

Carriage paid to any part of the United Kingdom.

SHOWCARD sent on application.

Several bags of Senegal Gum Siftings of 2 cwt. each to be sold at the price of 2½d. a pound, net cash, carriage paid. Sample on application.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, OCTOBER 19, 1912

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. **Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus Cannon London."** (Three words counted as two.)

It pays to pay for advertising in this Supplement.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—KENT (Suburban).—Dispensing and Retail Business; returns last year £2,300, increasing; intending investors with £1,200 at command will find this a sound investment.

2.—LONDON, W.—Good-class Dispensing and Family trade; returns £750, which produce a *net profit of* £300; attractive, well-fitted shop, fully stocked; comfortable residence, with garden attached; rent £45; price £600.

3.—LONDON, E.C.—Old-established Business, Retail and Dispensing; returns average about £700; *gross profit* £323; good prices being obtained; roomy house, bath-room, private entrance, garden; rent moderate; price about £225.

4.—LONDON, W. (Suburban).—Ready money Business; established many years; returns exceed £425 per annum; *net profit* £150; double-fronted shop, fitted in mahogany; electric light; no immediate opposition; price £165.

5.—SURREY (Residential Suburb).—Retail and Dispensing Business; returns between £450 and £500 per annum, increasing; attractive shop; moderate rental; price about £260.

6.—KENSINGTON.—Retail and Dispensing Business; good position; attractive shop; returns between £1,000 and £1,100 per annum; *net profit over* £300 (proof given); price £850; vendor going abroad.

7.—SOUTH OF LONDON (few miles out).—Good-class Dispensing and Retail Business; position unique; returns, present rate, £1,500; *net profit about* £450; large shop; long lease; price £1,250.

8.—HOME COUNTY (charming locality). — Two good-class modern Pharmacies, Retail, Dispensing, and Photographic; excellent positions; returns average about £5,000 per annum; can be sold separately; good opening for two young, energetic men; valuation terms entertained.

9.—SUSSEX.—Good-class Retail and Dispensing Business; returns about £1,325 per annum; *profit (net)* £430; rent £65; held on lease; commodious residence, private entrance; satisfactory reason for disposal; price £1,000.

10.—SOUTHERN COUNTY (Village).—Unopposed Business; returns £900 per annum; *average net profit* £320 (proof given); roomy house, small garden; rent moderate; terms, valuation of stock and fixtures.

11.—HOME COUNTY.—Mixed Business, unopposed; returns about £420; *net profit between* £120 and £150; comfortable residence; rent £20; lease if desired; price £170.

12.—SURREY (Death Vacancy).—Middle-class Business, Retail and Photographic; returns, including branch, about £1,325 per annum; *profits above the average of Retail trade*; full investigation invited.

13.—SURREY.—Unopposed Business, held by vendor 8 years; returns average £630, which produce a net income of £200; double-fronted shop; large residence; rent £47 10s.; price £500; there is a Post Office attached.

14.—CHESHIRE.—Light Retail Business; returns between £500 and £600 per annum; *net profit, after all expenses paid*, £198; comfortable residence; rent £28; price £275.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

1.—YORKS.—Light Cash Retail, returning approximately £4,000 for the last 20 months, at a net profit of £875; plenty of scope; situate busy town of North Yorks; price £2,000, which includes the property valued at £1,150 and the business at £850; vendor leaving for abroad, and must be sold together; splendid chance; very low price.

2.—LINCS.—Light Working-class Retail in busy Market town; returns £750, and could do more; personally known to us and well recommended; price only £175; only wants seeing; particulars cannot be obtained from any Wholesale house or any other agents, as it is solely in our hands for disposal.

3.—BIRMINGHAM.—Returns £500; net profit £150; price £250.

4.—STAFFORD.—Returns £1,400; rent £40; price £750.

5.—TYNESIDE.—Returns £855; net profit £220; price £500.

6.—MANCHESTER.—Returns £875; net profit £275; price £750.

7.—MANCHESTER.—Returns £1,100; net profit £300; price £850.

8.—LONDON, W.—Good-class Retail; net profit £300; price £600.

9.—SEVERAL Businesses for Sale showing net profits of £400 to £600 on the South Coast, Midlands, and West of England; write, stating wants.

10.—BRADFORD.—Returns £593; net profit £165; price £300.

11.—PUTNEY.—Returns £805; net profit £225; price £500.

12.—TORQUAY (near).—High-class Retail, situated in the main thoroughfare of one of the popular health resorts on the line from Exeter to Kingswear; returns £875, and increasing; net profit about £350; vendor after nearly a quarter of a century about to retire; absolutely the best position in the town; price £650; gentlemen with £400 cash may apply for further particulars.

STOCKTAKINGS.

We are open again for bookings for above for November 4 and onwards, with certain exceptions. Write for terms.

PARSON C. BAKER

174 VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEYS & CO.
Telephone: MESSRS. MEGGESON & CO.
No. 27 Victoria. MESSRS. BARCLAY & SON, LTD.

Gives personal attention to all Commissions for Sale, Purchase, or Valuation on moderate terms; quotations free.

P. C. B. has had longer and more varied experience than any other trade valuer; actively engaged over 40 years, Wholesale and Retail, town and country, Dispensing and Agricultural; credit and cash and qualified to advise on any difficulty.

Vendors invited to send particulars, in confidence.

Purchasers stating requirements can have selection from Register of Businesses of all classes, sizes, or places from £50 to £2,000.

UNOPPOSED in Co. Durham; returns £700; rent £23; price £250.

DISPENSING; Midlands; returns £1,500; valuation and one year's net profit.

GOOD Cash Retail; large town, Midlands; returns £1,500; valuation and one year's net profit.

THAMES VALLEY.—Neglected; returns £750; rent £55; price £250, or offer.

TOMTOM

Telegraphic Address:

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers.
Businesses transferred privately.
45A MARKET STREET, MANCHESTER.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to purchasers.)

1.—SUSSEX COAST.—Good-class Dispensing Business; all-the-year-round trade; returns over £850; no side-lines; good position; scope for increase; price about £450; valuation terms entertained; personally inspected.

2.—HOME COUNTY (Market Town).—Good-class Retail and Dispensing; returns nearly £900, increasing; excellent profits; Assistant kept; good position; fully stocked; price £700, or £50 and valuation.

3.—KENT COAST.—Good-class Retail and Dispensing Business, in same hands many years; now retiring; handsome Pharmacy, in splendid position; plenty of scope on modern lines; price £750.

4.—EASTERN COUNTY.—Sound unopposed Village Business; no Oils or Paints; returns £750; net profit £300; low rent; nice house and large garden; price £525.

5.—SURREY (20 miles out).—Light Retail and Dispensing Business, pleasantly situated; unopposed; returns £670; net profit £238; modern house, every convenience; price £500; strongly recommended.

6.—WEST OF ENGLAND.—Old-established Retail Business, in small town; returns over £500, and increasing; low rent; good house; large shop, fully stocked; price £400.

7.—KENSINGTON.—Light Retail, Dispensing, and Prescribing; returns £1,100; net profit £300; plenty of scope; fine corner position; well fitted and stocked; same hands many years; price £800.

8.—LONDON, W. (15 miles out). — Good-class Business, practically unopposed; death sole cause of selling; net profit about £300; attractive shop; good stock; price £550; personally recommended.

9.—DEVON COAST.—High-class Business in very best position; returns £890; net profit about £350; vendor retiring; unlimited scope in younger hands; price about £550; £200 can remain.

10.—HAMPSHIRE.—Very profitable Cash Retail, Prescribing, and Dispensing, at full prices; returns £800; net profit £300; first-rate position; well fitted and fully stocked; price £675.

11.—NORTH-EAST COAST.—Neglected Cash Retail and Prescribing Business; returns £820; was doing £1,150, and can again; fine shop in splendid position; price, valuation, about £500.

12.—CHESHIRE.—Good-class Retail and Dispensing Business, in most pleasant locality; returns £650 to £700; net profit fully £200; scope for increase; attractive Pharmacy; price £500, or valuation.

13.—LINCS. — Unopposed General, Country Retail; under manager; returns £450; scope for much increase; low rent; shop recently refitted and restocked; price £275, or valuation.

14.—NOTTINGHAM.—Profitable Light Retail and Prescribing, in good position; returns about £400; no Poisons; net profit half; modern premises; very low rent; price £100 for quick sale.

15.—LONDON, N.—Cash Retail Prescribing and Dispensing Business, in same hands many years; returns £776; gross profits 40 per cent.; well-fitted shop and good house; price about £450.

16.—LONDON (Essex Suburb). — £225 secures a sound Light Retail, at present doing £11 weekly under manager; plenty of scope; good position; low rent; only requires seeing.

BUSINESSES WANTED. We are in immediate want of sound concerns in all parts from £500 to £3,000. Cash buyers waiting. Strictest privacy guaranteed. Intending vendors cordially invited to write for our terms. No sale, no charge.

VALUATIONS FOR STOCKTAKING. Have you read our pamphlet on the necessity and advantages of Stocktaking? It should be read by every Chemist in business. Sent free on application, together with our new and revised terms. 42 years' practical experience.

BUSINESSES for DISPOSAL

3s. 6d. for 50 words or less: 6d. for every 10 words or less beyond, prepaid.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.
Trade circulars, samples, and printed matter can in no case be forwarded.

EASTERN COUNTIES.—Splendid chance for a young pushing man; neglected Business, now doing £500; has done over £1,000; fittings alone worth price asked; handsome, double fronted, mahogany fitted; good residential neighbourhood; plenty of scope; price about £350; part could remain if desired; must be sold; good reasons. "Vendor" (212/18), Office of this Paper.

ESSEX (few miles out of London).—A genuine Family Retail, Prescribing, and Photographic; exceedingly profitable; suit either qualified or unqualified; plenty of scope; present returns £850, and steadily increasing; good house and shop, double fronted and well fitted; owner leaving neighbourhood will accept valuation terms to effect a quick sale. Apply, 212/11, Office of this Paper.

LONDON.—Light Suburban Retail and Dispensing Business; no cutting and very few Patents; same hands many years, and retiring; returns exceed £1,400; net profit over £500; books properly kept; every investigation courted; price about £1,150; references required. Apply, 215/280, Office of this Paper.

MANCHESTER.—Light Retail, principally cash; returns last year £1,200 nearly; net profit £300; very fine corner position; rental under £50; in advertiser's hands nearly 20 years; price asked £850; thorough and complete investigation invited to a bona-fide applicant. Apply, "Oldham" (88/46), Office of this Paper.

MANCHESTER (near).—Chemist, desirous of retiring, is open to Dispose of his Cash Business privately; newly fitted shop and excellent house; clean profitable business, with Branch Post-Office attached but work separately; salary covers rent, rates, and taxes; a valuable asset. Apply, by letter, to "Chemist," Post Office, South Levenshulme, Manchester.

MANCHESTER.—Mixed Retail, Prescribing, and Extracting; busy thoroughfare; returning £300 under unqualified Manager; d.f. shop; rent £30; price, valuation of stock and fixtures, about £60. "Kalafnas" (88/33), Office of this Paper.

NEAR Bradford. — Old-established Business for Disposal, well situated in main thoroughfare; good double-fronted shop; returns £650, with scope for increase, as there is only one other Chemist in district; good reasons for disposal; will accept valuation. 209/12, Office of this Paper.

NOTTINGHAMSHIRE.—Old-established Wholesale and Retail Business for Sale at a valuation; situated in the Market Place of a growing Colliery town; population over 20,000; average turnover for past 3 years £2,500; excellent Storerooms and yard; death of proprietor reason for sale, which must be a quick one. Henry Bradfield & Sons, 21 Victoria Street, Nottingham.

SOUTH OF ENGLAND (Fashionable Resort).—Good-class Dispensing and Retail Business, showing steady increase; returns £1,350, producing clear net profit of over £400; well-appointed Pharmacy, fully stocked; convenient residence attached; held on low rental; price £1,000; thoroughly sound, and only cash buyers entertained. Address, 215/28, Office of this Paper.

SUFFOLK.—Light Retail and Prescribing Business in healthy Country district; entirely unopposed; very profitable; low rent; long lease; good opening for Dentistry; returns £450, and increasing; good reason for selling. Apply, 213/14, Office of this Paper.

A PROFITABLE Branch Chemist's Business in growing Colliery village in Derbyshire; suitable for a beginner; ample scope for increase under personal supervision; low rent. Apply, 213/52, Office of this Paper.

CHEMIST; established some years; well fitted, with Soda Fountain, National Cash Register; no near competition; unique opportunity for beginner or Branch; low ingoing. Particulars, F. Watts & Co., Valuers, 33 King Street, Manchester.

FOR Sale, splendid little Branch Pharmacy in good-class Manchester suburb; reasonable price accepted; big scope for Roman Catholic. Apply, 210/24, Office of this Paper.

IMPERATIVE Sale.—£100 or any reasonable offer; owner gone abroad; several Proprietary articles highly spoken of by many eminent people; supplied by warrant of appointment to Royalty. Full particulars, "Royalty" (215/10), Office of this Paper.

LIGHT Retail; not long established; making £3 net weekly profit on average weekly turnover of £11; good position; well fitted; grand chance for beginner; owner retiring from the trade will accept valuation. 87/17, Office of this Paper.

TO be Sold immediately, as a going concern, small Business near London; very profitable; turnover about £450; easily increased; large and populous district; valuation of stock and fixtures only. Apply, 212/17, Office of this Paper.

£90.—Suburban Business, working class; has been somewhat neglected; useful opening for man with small capital; no near opposition. Write, 215/18, Office of this Paper.

£95 cash (sacrificing at) in order to Sell immediately owing to affliction of proprietor (under specialist's orders); thoroughly genuine and exceptionally profitable Prescribing, Surgical Business, main road, London working-class Suburb; unopposed; good "passing" trade done; established 80 years; only changed hands twice; doing £5 to £5 10*s.* weekly; gross profits average £3 15*s.*, net £2 15*s.*; rent £30 p.a.; good-sized house; suit unqualified; real bargain at above price; first applicant secures it. "Urgent" (212/5), Office of this Paper.

£165.—LONDON.—Light Retail, Prescribing, and Photo Business for Sale; nicely fitted and well stocked; busy part; very profitable lines; an equal chance to a cash buyer as price is low to effect an immediate sale. Apply, "Bargain" (215/19), Office of this Paper.

£720.—Cash Business; turnover £1,100; net profit, after rent and rates are deducted, £320; no agents; bankers' references. Apply, "Xylem" (215/13), Office of this Paper.

SALES BY AUCTION.

LEICESTER.
IN BANKRUPTCY.—*Re* T. HOWARD LLOYD & CO.
ON WEDNESDAY AND THURSDAY, OCTOBER 30 and 31,
AND ON FOLLOWING DAYS IF NECESSARY.
ST. JAMES' STREET, HUMBERSTONE GATE.
SALE OF THE WHOLE OF THE STOCK-IN-TRADE OF A MANUFACTURING CHEMIST AND DRUGGIST,
WITHOUT THE SLIGHTEST RESERVE.

G. F. BROWN & SON are instructed by the Trustees to SELL by AUCTION, on the premises as above, at 11 o'clock sharp each day, the whole of the

STOCK-IN-TRADE OF A MANUFACTURING CHEMIST AND WHOLESALE DRUGGIST,

comprising 1 ton of Cascara Bark, 17 cwt. Bicarbonate of Soda, 9 cwt. Liquorice Juice, 600 gals. Concentrated Liquors, 500 gals. Infusions, 200 gals. Syrups, 100 gals. Oils, 40 gals. Industrial Methylated Spirit Turpentine, Mortars and Pestles, Douches, Bed-pans, Urinals, Feeding-cups, Thermometers, Glass Measures, Funnels, Shop-rounds, Test Glasses, Missionary Chests, Midwifery Instruments and Bags, Splints, Syringes, a large stock of Bottles for Dispensing and Drugs; Powder-dresser by Gardner & Son, 6 Steam-jacketed Copper-lined Boiling Pans, Condenser and other utensils, 12 h.p. Crossley Gas Engine, and numerous other articles which will be detailed in the catalogues, to be obtained (post free) on application to the Joint Trustees, Mr. E. P. Steeds, Chartered Accountant, 20 Friar Lane, Leicester; Mr. C. H. Spencer Chartered Accountant, 24 Friar Lane, Leicester; or of the Auctioneers, 54 Belvoir Street, Leicester.

TO CHEMISTS, STORES, AND OTHERS.
Re HENRY MOON, LTD., in Voluntary Liquidation.
REMOVED FROM BRIGHTON.

MESSRS. FRYER, COOPER & CO. will SELL by AUCTION, at their Rooms, 3 Redcross Street, E.C., on THURSDAY, OCTOBER 24, 1912, at 1 o'clock, the Stock and Plant of a Manufacturing Chemist, comprising 10,000 Bottles and Decanters of British Wines, Lime-juice, Cloudy and Clear Lemon-squash, Glycerine in bulk, Vaseline and Liquorice, a large quantity of Essences by Stevenson & Howell, Bush, and other well-known makers, including Raspberry, Vanilla, Cloves, Ginger, Lemon, Orange, Port Wine, etc., 200 dozen Decanters in original crates, 250 Bottle-cases to hold 3 dozen bottles, Essential and other Oils, Drugs, Powders, Bottles, Corks, Labels, Capsules, Bottle washing Machine, 2 Capsuling Machines, Powder Mixer by Gardner, for hand or power, new 12-gallon Copper Percolater, Copper Measures, 6 Copper and other Pans, Boiling Plant, 2 20-gallon Copper Boilers, Runs of Piping, new Corking Machine, "Invicta," Funnels, Mortars and Utensils, together with the Office Furniture and Fittings, Remington Typewriter, Nests of Drawers, Show-cases, Sample Bags, Fireproof Safe, Crane, Truck, Syphon-bottle Filler, Four-way Tubes with Aluminium Automatic Stop Valve, Aluminium and Gun-metal Taps, 7 Pairs of Scales and Weights, Rubber-tyred Trolley, 6 28-gallon Stove Pans, 1 43-gallon ditto, 8 six-gallon Doulton Pans, 100 half to 4 gallon Jars.

On view day prior and morning of sale, and Catalogues may be had of the Auctioneers, 3 Redcross Street, E.C.

BUSINESSES WANTED.

BUSINESS wanted by young Pharmacist; cash ready £200 to £250; not North of England or Midlands; neglected entertained if scope; no Dentistry; good house. Please send fullest particulars and price to "Onward" (214/35), Office of this Paper.

GENUINE Business wanted; London, or within 100 miles; good Country town if possible; returns should be not less than £1,200; capital available by advertiser £1,500; Wholesale house references or solicitors' and bankers' if required; every confidence given; only preliminary details need be given. Apply, 88/20, Office of this Paper.

NOT advertised before; good position Business wanted; main or busy road, London, Southern or Midland town, where substantial trade is or can be done; moderate rent; old-fashioned price not entertained; please quote present-times price and usual details of turnover, rent, etc. Address, "Lansdowne" (214/36), Office of this Paper.

WANTED, neglected Business, returning not less than £700, offering scope for increase to energetic and industrious young man; larger business would be entertained if part might remain; N. or S.W. London preferred; must bear strictest investigation; highest references can be given. "Ross" (214/39), Office of this Paper.

WANTED, a Business; returns from £800 to £1,200; London, Suburb, or provincial town; neglected business in a good position not objected to; capital waiting to invest. Full particulars to "Bodmin" (210/30), Office of this Paper.

PARTNERSHIPS.

PARTNER.—Director required with £5,000 for half-share in a well-established progressive Manufacturing business, London, showing substantial net profits; Debenture security for £4,000; the business is in a strong position, open to closest investigation, with large scope for development. Particulars from Messrs. Arnold & Co., 76 Cannon Street, E.C.

PHARMACIST (41), Scotch, married (large family), 26 years' exceptional experience, Photography, etc., energetic, up to date, smart, suave and tactful, now managing large establishment, knowing promising opening in North of England town, desires financing; fullest inquiries courted as regards character, antecedents, and abilities. Confidential replies to "White Heather" (207/11), Office of this Paper.

PHARMACIST, with good West-End experience, desires Partnership in high-class business (Wales preferred); would serve probation as Manager or Assistant if desired. "Aspirin" (211/30), Office of this Paper.

FOR SALE.

ON Sale, a good strong adjustable Rotary Tablet-machine, capable of making 60 round Tablets a minute, diameter 1 in., depth ¼ in. or less; practically new; would accept half cost to clear. Edward Milne & Co., Spalding.

TO Chemists commencing Business or others Opening Branches.—Chemist has for prompt Disposal entire first-class Mahogany Fixtures, Show-cases, Counters, etc., together with small remaining Stock; all in first-class condition and at a low valuation; inspection is desired, as written description cannot give idea; worth attention; no cards answered. Stead, Chemist, St. Anne's-on-Sea.

APPRENTICESHIPS.

YOUNG Lady, aged 17, having passed the Matriculation exam., wishes to become Apprenticed with a Pharmacist in order to enter for the Jacob Bell Scholarship. Reply, in first instance, to "E.," c/o T. H. Bateman & Co., 223 Finchley Road, London, N.W.

YOUTH (age 18) desires to serve Apprenticeship with Chemist; passed Preliminary exam.; good knowledge of Photography. 215/24, Office of this Paper.

AGENCIES.

MANUFACTURERS' Representative, now in England for a few weeks, desirous of negotiating with Manufacturers in Chemists' and kindred trades for Sole Representation in South Africa; contributory expenses and commission. Apply, 215/9, Office of this Paper.

TO LET.

LONDON, main thoroughfare, W.—Long-established Cash Drug Stores and Chemist's can be had without premium for goodwill; good shop, thoroughly fitted up, just closed; good house, electrically wired throughout; good position; lease will be granted at moderate rent to suitable applicant; exceptional circumstances. 215/36, Office of this Paper.

SHOPS (handsome) to Let; Druggist, Draper, Boots, Grocer, Furnishing, Pork Butcher, Milliner, Ham Beef, China, Domestic Oil Colour Stores; rents £60, £100, £110, £125, and £150; largest 11 rooms. "L. R.," 8 San Remo Parade, Westcliff-on-Sea.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6*d*.

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BEXHILL-ON-SEA.—Wanted, Junior; good knowledge of Photography, especially Developing and Printing; Light Retail and Dispensing. Ethelbert Smyth, Dispensing and Photographic Chemist, Bexhill-on-Sea.

BRIGHTON. — Wanted shortly, gentlemanly Assistant, 25-30, with good Dispensing and Counter experience; qualification not essential if competent; comfortable indoor situation; reasonable hours. Enclose photo and full particulars as to salary required, when disengaged, etc., to E. Beckwith, 43 Dyke Road, Brighton.

COUNTY ASYLUM, CHESTER.—Wanted, a lady, experienced, to act as Dispenser and assist in Pathological Laboratory; salary £60 per annum (subject to deductions under the Asylum Officers' Superannuation Act, 1909), with board, lodging, and washing. Application, with three recent testimonials, to be sent on or before November 4, 1912, to the Medical Superintendent.

CHESHIRE.—Wanted, unqualified Assistant; experienced; must be a good Dispenser and Window-dresser, also possess knowledge of the Photographic trade; outdoors. State salary required, when disengaged, age, height, references, and enclose photo if convenient, Jacklin, Chemist, Hale, Cheshire.

CITY; outdoors; no Sunday or night duty; wanted, qualified Assistant. Apply, with full particulars, to "X. Y. Z.," 19 Holcombe Road, Ilford, Essex.

EDINBURGH.—J. C. Pottage & Co. have a vacancy for a reliable Junior, accustomed to a good-class business. State usual particulars, etc., to 115 Princes Street.

HORLEY.—Junior wanted at once (outdoors) for a good-class business. Send full particulars, stating salary, and enclose photo, A. B. Higgs, Chemist, Horley, Surrey.

LONDON, S.W.—Unqualified Assistant; outdoors; knowledge of Photography and Optics essential; age about 25. Reference to "F. G." (208/33), Office of this Paper.

LONDON, S.E.—Wanted, a young qualified Assistant; outdoors; short hours; no Sunday duty; Photography. Full particulars, salary required, etc., 21 Westow Hill, Upper Norwood.

LONDON.—Outdoor Assistant for Dispensing and good-class Retail Suburban trade; hours 9 to 8.30; duty alternate Sundays 9 to 9 P.M.; half-day Wed. State references and salary required, height, and age, in first application, Evans, Dodd's Pharmacy, Stamford Hill, N.

LONDON, N.W.—Junior wanted; outdoors; personal interview if possible. C. A. Noble, 110 Mill Lane, West Hampstead, N.W.

LONDON, S.W.—Unqualified Assistant wanted (outdoors), only one kept, with Dispensing experience; permanency preferred. Please give full particulars, stating age, height, salary required, and enclose photo, E. Anstee Turner, 280 Fulham Road, South Kensington.

LONDON, S.E.—Wanted, competent qualified Assistant, possibly for permanency as Manager; outdoors; hours 8.30 A.M. to 1.30 P.M., 10.30 P.M. Saturdays; half-holiday Thursdays; no Sunday duty; highest references essential; abstainer preferred. Apply, with fullest particulars, stating when disengaged and most convenient time for interview, to "S. E." (213/9), Office of this Paper.

LONDON, W.—Qualified Assistant for Front Counter; good London and some Continental experience necessary. Apply, stating age, height, and salary required, to Roberts & Co., 76 New Bond Street, W.

LONDON, S.E.—Junior, about 21 (indoors), for good-class Retail and Dispensing business; time for study given. Apply, with full particulars, to "Rhei" (215/20), Office of this Paper.

MANCHESTER.—Junior or Improver wanted (outdoors) for middle-class Cash Retail business; if a short time for study required this could be arranged. State age, salary required, and all usual particulars to H. Lockwood, Chemist, Harpurhey, Manchester.

NEAR London.—Assistant wanted (outdoors), age about 22 or 23; Light Retail and Dispensing business, with Photography. Apply, stating full particulars, with photo, Power & Son, Walton-on-Thames.

NEAR Swansea.—Junior Assistant; outdoors; Light Country Retail. Apply, giving age, height, salary required, to 208/32, Office of this Paper.

SURREY. — Qualified Assistant required, to take charge of Branch; married; convenient flat over business, furnished with gas stove and electric light; salary £2 per week; references must bear investigation. State age, height, and send photo to "Pharmacist" (212/29), Office of this Paper.

WEST-END.—Qualified Assistant required, with first-class Dispensing experience. Apply, Mr. E. J. Jenkins, 24 Sloane Street, S.W.

A SMART Junior Assistant required for Retail and Prescribing business; knowledge of Welsh preferred. State age, references, experience, salary, J. L. Hopkins, Chemist, Pontycymmer.

A SMART Junior Assistant; one accustomed to Dispensing and good-class Retail. Apply, stating age, references, experience, and salary required, Hawker, Chemist, Bristol.

ASSISTANT, unqualified (outdoors), for Country business near Nottingham; easy hours; weekly half-holiday; no Sunday duty. Particulars of age, experience, references, and salary required to A. Toon, Pharmacist, Pinxton, near Alfreton.

ASSISTANT wanted at once; Junior kept. 212/1, Office of this Paper.

ASSISTANT, single, for first-class Dispensing business; short hours; must be quick and accurate Dispenser; would prove comfortable situation to suitable man; age about 25. Photo, age, salary, and full particulars, "Vator" (214/29), Office of this Paper.

COMPETENT Assistant, unqualified, for good-class business near London, about the second week in November; must have had good experience in Dispensing; comfortable home and good opportunity for studying. Apply, stating salary and usual particulars, to 213/27, Office of this Paper.

GENTLEMAN, under 30, required as Dispenser by Doctor; whole-time employment; no previous Surgery experience required, and Junior not objected to; good reference. Address, 216/4, Office of this Paper.

GERMAN or French Assistant wanted, one who desires to learn English. Apply, 166 Wardour Street, W.

HENRY HODDER & CO., LTD., have vacancies for two Juniors; hours 8 to 8, Fridays 9, Saturdays 10; half-holiday weekly; no Sunday duty. Apply, with full particulars of experience and if possible send photo, to Managing Director, 5 Nelson Street, Bristol.

IMMEDIATELY.—Assistant, 20 to 22, for Country business; must be fair Dispenser and Counterman; time arranged for study if desired. State age, height, salary required (outdoors), and full particulars of experience, also enclose photo and give references, and say when disengaged, to W. H. Clement, Chemist, Radstock, near Bath.

IMPROVER or Junior for Light Retail Country trade; indoors; short hours. State age, height, and salary required, Robert P. Roe, Chemist, Packers' Row, Chesterfield.

JUNIOR wanted in good-class Dispensing and Retail. Full particulars of experience, references, age, and salary required (outdoors), and enclose photo, to Dring, Teignmouth.

JUNIOR Assistant wanted (indoors), capable of undertaking Photographic work. State full particulars in first letter, references, salary required, age, and photo, W. & S., 21 West Street, Horsham.

JUNIOR Assistant wanted, accustomed to good-class Retail trade; personal application preferred. Apply to James Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

JUNIOR; outdoors; good-class Dispensing and Retail. Photography. Carte and usual particulars, Simpkins, 75 High Street, Stourbridge.

JUNIOR-IMPROVER required at once; outdoors; state age, height, salary required; applications not answered in 3 days declined. Give references and send photo to A. Middleton & Son, 25 Lister Gate, Nottingham.

JUNIOR; a man who has just finished apprenticeship; hours very easy; no after-hour duties; no heavy or dirty work. Particulars to 85/39, Office of this Paper.

MANAGER.—Smart young Assistant, qualified, as Manager of Branch in working-class district in Leeds; R.C. preferred; good prospects. 212/24, Office of this Paper.

MR. FRANK A. ROGERS has a vacancy for a qualified Assistant. Please give full particulars, in the first instance by letter only, to 327 Oxford Street, W.

OPTICAL.—Capable Assistant-Refractionist wanted; must be willing to fill in spare time in Chemist's Retail. State experience and salary (outdoors), which must be low, "X." (212/31), Office of this Paper.

QUALIFIED Junior (outdoors) required for Country business. State age, qualification, present and last situation, with references and salary required, Reade Brothers & Co., Ltd., Wolverhampton. Hours 8.30 to 8 P.M. except Saturday, half-holiday Thursday.

QUALIFIED Assistant, 27 to 30; must be a good and reliable Dispenser and thoroughly trustworthy; indoors; others kept. Beall, 15 Chesterton Road, Cambridge.

QUALIFIED Assistant wanted; quick and competent Dispenser; accustomed to good-class provincial business; others kept. Please state age, height, experience, salary required (outdoors), and enclose photo, E. Bing & Son, Pharmaceutical Chemists, Canterbury.

QUALIFIED Assistant for Light Retail and Prescribing; no Photography; Mixed business; easy hours; would suit elderly man; moderate salary. State full particulars and salary required to Exors. of J. E. Cuthbert, Green Ayre, Lancaster.

QUALIFIED Locum required immediately for 3 months; salary £3 (outdoors). Apply, with references, Ledain, Chemist, Erdington.

QUALIFIED Assistant required for Management of Chemist's and Druggist's business in large town, Lancashire, in consequence of illness of proprietor; arrangements might be made with a view to Partnership. Inquiries addressed to Mellors, Basden & Mellors, Chartered Accountants, Nottingham.

QUALIFIED Assistant wanted at once; good Counterman and Prescriber; Extractor preferred. Apply, 450 New Cross Road, S.E.

SMART Junior (20 to 25) wanted, used to high-class quick Store trade; must be tall, good Salesman, good appearance and address. State when disengaged, salary required, experience, photo if possible, to Simpson, 114 Addison Road, Hove.

WANTED, a smart Junior Assistant in a good Family and Dispensing business; indoors. Apply, with full particulars and salary required, to P. Stacey, Pharmaceutical Chemist, 81 High Street, Teddington, S.W.

WANTED, Porter, young, quick, intelligent, and with good references; permanency and good prospects to steady, reliable, young man; near Oxford Circus. 213/36, Office of this Paper.

WANTED, an Assistant, about 23 to 25 (qualified), for Dispensing business. State age, height, salary (indoors), when disengaged, experience, if Dispensing and Photography, names of two last employers, and time with each. 212/22, Office of this Paper.

WANTED, qualified Assistant; elderly, single; indoors: abstainer preferred; personal interview if possible. Apply, usual full particulars, with photo, Henry Francis, 22 High Street, Bromley, Kent.

WANTED at once, for a London Retail house, a qualified Dispenser; hours 8.45 A.M. to 6.15 P.M., Saturdays to 1 P.M.; no Sunday duty. Apply, by letter, stating age and salary required, to "Sulph.," c/o Street's, 30 Cornhill, E.C.

WHOLESALE.

COUNTER hand, about 22; principally Wets; experienced, smart and willing: London. Write, with full particulars of experience and wages required, to "Statim" (211/25), Office of this Paper.

INVOICE Clerk.—London Wholesale Druggist requires a smart youth; must be quick at figures and neat writer; age 17-18; experienced. 86/71, Office of this Paper.

JUNIOR Export Clerk for provincial Wholesale house. Apply, stating age, salary required, experience and references, to "Export" (83/72), Office of this Paper.

MANAGER wanted; young gentleman, single, one who understands thoroughly the Wholesale Packing of Sundries, principal penny lines for Oilman, etc.; must be reliable, energetic, pushing man and not afraid of work; share in profits. Apply, by letter, "A. K." (215/9), Office of this Paper.

PHARMACIST, young, qualified, with experience of Advertising and some knowledge of foreign languages. State experience, age, and salary required to "R. X." (86/53), Office of this Paper.

TABLETS.—Wanted, a young man, 20-25, take charge of and keep Stock, Tablets Department. Only those with experience need write, stating full particulars, to "Tabs." (209/21), Office of this Paper.

WANTED, two or three commission Travellers, North of England and S. Wales, for introducing good Proprietary among Chemists and Drug Stores. For particulars, giving ground covered, apply King Bros., Wholesale Chemists, Wolverhampton.

WANTED, at Stockton-on-Tees, energetic young man as Foreman in charge of 50 girls packing Dry and Bottled goods; experience in first-rate Packing Warehouse essential. State experience, age, salary required, 76/29, Office of this Paper.

WANTED, for Manufacturing Chemists' City Office, young man with thorough business experience and knowledge of trade and markets; capable organise and direct office and warehouse work. Apply, stating age, particulars of previous experience, salary required, etc., to 215/37, Office of this Paper.

WAREHOUSEMAN required by London Wholesale and Export Druggists; must have had previous experience, and preference given to one accustomed to control Packers, supervise exportation of tinctures under drawback and receive goods. Apply to "Senega" (86/710), Office of this Paper.

WET Floor.—Competent Counter hand, aged about 23-24, wanted by London Export Druggists. Write, stating full particulars of previous experience, wages expected, and if disengaged, to 20/370, Office of this Paper.

SITUATIONS OPEN

(Colonial, Indian, and Foreign).

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

BOMBAY, India.—Qualified Assistant wanted for principal Pharmacy in this city; young man with knowledge of Optics and Photography preferred; must be methodical and not afraid of hard work; 4 years' agreement to be signed; salary Rs. 250 per mouth for first year, Rs. 270 for second, Rs. 290 for third, and Rs. 300 for fourth years respectively, also living out allowance of Rs. 35 per month; second-class passage paid and return fare allowed at the end of agreement. Apply, stating particulars to "F. W. H.," c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

CAPE COLONY.—Junior qualified Assistant required for a Coast town, under 26 years of age; unmarried; salary £15 per month first year, £16 second, £17 third; 3 years' agreement; second-class passage paid out. Apply, by letter only, "L.," 14 Lafone Street, London, S.E.

CAPE COLONY.—Competent Counterman required, used to both Wet and Dry, age about 23 years; unmarried; wages commencing at 50s. per week; 3 years' agreement; passage paid out. Apply, by letter only, "L.," 14 Lafone Street, London, S.E.

CAPE TOWN. — Required urgently, a good qualified Junior Assistant; single; second-class passage paid out; salary £15 per month first year, £16 per month second year, £17 per month third year; sleeping accommodation provided; must be neat and accurate Dispenser. Apply, 39/51, Office of this Paper.

CAPE TOWN.—Qualified Assistant, single, under 30, gentlemanly appearance; total abstainer preferred; salary £20, £21, £22, first, second, third years; second-class passage paid. Apply, with photo and testimonials, to "R. L.," c/o Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

CHINA.—Qualified Assistant, age about 24; must have had good experience in first-class Dispensing and Retail business; 4 or 5 years' agreement; salary commencing at £17 per month and rising by annual increments of £1 per month; free quarters; passage paid out and home. Address, "China" (209/19), Office of this Paper.

COLOMBO.—Qualified Assistant wanted, about 25 years of age, single, good Salesman and willing worker; practical knowledge of Sight-testing an advantage, but not absolutely necessary; salary Rs. 225, 250, 275, and 300 per month in each year for a 4 years' agreement; commission paid on night and Sunday duty of Rs. 40 to 70 per month; this depends upon the Assistant himself to a large extent. Apply, with full particulars, to 51/2, Office of this Paper.

INDIA.—Wanted, first-class man to undertake General Commercial Analyses (Coals, Shellac, Indigo, Cements, Minerals, etc.); Pharmacist preferred, with knowledge of Bacteriology and B.Sc. or F.I.C. qualification; 3 years' agreement; passage out and home paid. Applications, with testimonials, to H. S. Shorthouse, 144 Edmund Street, Birmingham.

INDIA.—Required, for Calcutta, qualified (Minor) Assistant, single, about 22; good character; 4 years' agreement; passage paid both ways. Apply, giving full particulars of experience, to 199/11, Office of this Paper.

INDIA.—A leading firm of London Wholesale and Export Druggists, with large connection, require a Traveller for India; previous experience preferred. Apply, stating full particulars, to "Rheum" (88/65), Office of this Paper.

JAPAN.—Qualified Junior Assistant, about 23 to 25; unmarried; good appearance and address; smart Salesman and general experience of trade; 4 or 5 years' agreement; salary commencing £120; advance of £15 yearly; free board and lodging; passage paid out and home; healthy climate; first-class English Chemists. Apply, Dakin Brothers, Ltd., 82 Middlesex Street, London.

NATAL.—Required immediately, qualified Assistant, age about 24 to 28; 3 years' agreement at £18, £19, and £20 per month; passage paid out, with £5 expenses *en route*; total abstainer; excellent references required. Apply, 37/15, Office of this Paper.

NATAL. — Qualified Assistant as Manager, with thorough Optical knowledge, about 25; steady; good Counterman; one used to Store trade preferred; £18, £19, and £20 per month for 3 years' agreement; second-class passage paid. Apply, with full particulars, to 51/60, Office of this Paper.

SOUTH AFRICA.—Wanted, qualified Assistant, about 25 years of age; London experience; 3 years' agreement; passage paid; £18 10s. per month first year, £22 10s. second year, £25 third year. For further particulars apply to Durant, Radford & Co., Ltd., Billiter Buildings, London, E.C.

ST. MORITZ (Switzerland).—Qualified English Chemist required for November 1 or 15; extra language and Continental experience an advantage; salary 300 francs per month; travelling allowance 120 francs. Full particulars in first letter to International Pharmacy.

TRANSVAAL.—Qualified Assistant; must be a good Dispenser and capable Counter hand. Apply, with full particulars as to age and experience, to "G. K." (51/600), Office of this Paper.

PACKER required for Cape Town, not above 30 years of age; unmarried; absolutely useless applying unless thoroughly experienced in Packing Drugs and Druggists' Sundries; passage paid out. Apply, by letter only, "L.," 14 Lafone Street, London, S.E.

PHARMACIST, age about 24, English, preferably with some knowledge of Italian, wanted by English firm of Wholesale Chemists established in Italy; applicant should have a thorough business training and some experience of keeping a varied stock; must be a good organiser and accustomed to direct the work of a small staff. Apply, with full particulars, including salary required, to 86/530, Office of this Paper.

WANTED, as soon as possible, by a large American Manufacturing Pharmaceutical house, a thoroughly experienced and successful Salesman for the Far East; must be a Pharmacist, energetic, a business-getter, and one who has had successful experience in selling Pharmaceutical goods abroad; unless you have these qualifications no need of applying. Write, "F." (79/2 Office of this Paper.

WANTED, Straits Settlements, Assistant, qualified, about 23 to 26, with good knowledge of Photography and Optics and good all-round experience; 4 years' agreement; salary £245, advancing to £335; free rooms and medical attendance; passage paid out and home. Apply, with full particulars, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate, London.

WANTED, South Africa, Drug Clerk, with technical knowledge; single, energetic, reliable; abstainer preferred; 3 years' agreement; commencing £14 per month; state age, record and references, send photo if possible. Address, "T. D. Y.," c/o Street's, 30 Cornhill, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this office and forwarded to the Advertiser for an Additional charge of 6*d*.

[HOME.]
RETAIL.

A. HAWTHORNE, Pharmacist, 68 Beckenham Road, Beckenham, Kent, desires engagement; since closing my business at Brentford, W., have acted as Locum for Pharmacists at St. James' Infirmary, Balham, S.W., The Infirmary, St. John's Hill, S.W., and St. Pancras Infirmary, Dartmouth Park Hill, N., and for other Pharmacists in business; reliable; strict abstainer.

AS Relief, Locum, evening work; unqualified; disengaged. "Chemicus," 106 Liverpool Road, Islington.

ASSISTANT; disengaged; North preferred; tall; first-class Dispensing and Counter experience. 204/32, Office of this Paper.

ASSISTANT; 23; 8 years' experience; good knowledge Photography; excellent references. "Statim," 5 Hill Brow Road, Southbourne Road, Bournemouth.

ASSISTANT, Locum, or Manager; 12 years' London and Continental Pharmacies, France, Belgium, Switzerland; fluent French; Optics, Photographics. "Chemist," Maple House, Gosberton Risegate, Spalding.

ASSISTANT; 19; good Store experience; Photography, Counter; North preferred. Ellis, 6 Mersey Street, Hull.

ASSISTANT (24) requires situation in or near London; Dispensing, Counter, and Dental experience. Evans, Islwyn, Albert Street, Llanelly, South Wales.

ASSISTANT (Senior), unqualified, desires permanency; outdoors; tall; 31; gentlemanly address and appearance; excellent references. "T.," 41 Caledonia Place, Clifton, Bristol.

ASSISTANT (33) desires situation; 18 years' good all-round Retail and Dispensing experience; permanency; would consider Juniorship or Part-time berth, Edinburgh, Glasgow, Aberdeen; good references; disengaged November 4. Craig, 150 High Street, Arbroath.

ASSISTANT; experienced in high-class Retail and Dispensing; unqualified; excellent references; height 5 ft. 9 in.; age 26. "W.," 6 Haven Green, Ealing.

ASSISTANT; used taking sole charge; all-round capable, reliable man; London or Suburbs; active, obliging; outdoors. "Aspirin" (212/8), Office of this Paper.

ASSISTANT or Manager; wide experience; highest references; Dispensing business preferred. "Amidol" (212/16), Office of this Paper.

ASSISTANT; shortly disengaged; tall; experienced; good references; 30. "Abstainer," 85 Bristol Road, Bridgwater.

AUSTRIAN qualified Assistant, speaking 4 languages fluently, desirous of improving his English, seeks situation in high-class English Pharmacy. "International," 17 Alderney Street, S.W.

BRANCH Manager or Assistant, immediate; experienced; indoors preferred. "Competent," 3½ Salt Mill, Saltash, Cornwall.

BRANCH Manager or Warehouse; unqualified; excellent London experience; disengaged shortly. "Lavand" (216/1), Office of this Paper.

DISPENSER; unqualified; first-class Dispensing experience; permanency preferred; outdoors. Jones, Ty'r Eddew, Dyffryn, Merioneth.

DISPENSER or Locum; first-class experience; disengaged. "Dispenser," 13 James Street, Paddington, W.

DISPENSER (Lady); highest references; Hospital or private work; very moderate salary. 215/14, Office of this Paper.

ENERGETIC Assistant open for temporary sharp work; building-up, overhauling, and re-arranging stock and business; expert window-dressing on English, American, and Parisian styles; highly recommended by late employers for good results; disengaged; distance no object provided railway expenses paid. Write at once, "Expert," 8 Queen's Road, Shirley, Southampton.

FIRST-CLASS Assistant; Dispensing, Counter, Window-dressing, etc.; smart and neat worker; single; at liberty next Tuesday. Nicholson, 104 Beaver Road, Ashford, Kent.

FRANCIS & CO., Pharmacists, Wrexham, can recommend a Junior who has recently completed his apprenticeship; Junior is tall, obliging, and a good Salesman; Liverpool district preferred; Dispensing experience required.

IF you want a competent unqualified Assistant apply to "London" (212/38), Office of this Paper.

JUNIOR; 19½; splendid testimonials; accurate Dispenser; good Counter experience; Window-dresser; Photographic knowledge; outdoors. "Industrious" (209/18), Office of this Paper.

JUNIOR (19) requires position; nearly 4 years' experience; Liverpool or district. Apply, "Aspirin," 16 Sandrock Road, Liscard, Cheshire.

JUNIOR seeks situation; West of England preferred; Dispensing; total abstainer. 210/33, Office of this Paper.

JUNIOR (18), height 5 ft. 4 in., seeks situation; London preferred; Dispensing, Photographic, Retail experience; references; disengaged November 11. Sibthorpe, c/o W. Mann, 4 Pier Avenue, Clacton-on-Sea.

JUNIOR; 19½; 3½ years' London experience; good-class business. Montagu, 24 Clifton Road, Maida Vale.

JUNIOR; indoors or out; small salary until qualified. "Rhei," 58 Stockfield Road, Birmingham.

JUNIOR; 19; tall; good appearance; energetic; well educated; nearly three years' experience, Counter work, Prescribing, Photography, and General Retail; Manchester district preferred, but not necessary; excellent reference. Apply, Rigby, Queen Street, Westhoughton, Bolton.

JUNIOR (20) desires position in a good-class Retail and Dispensing business; London or near preferred; good Dispenser; good appearance; outdoors; disengaged November 12. 211/12, Office of this Paper.

JUNIOR Assistant, age 20, of smart appearance, requires situation; 5 years' experience in the trade; Store trade preferred; total abstainer, non-smoker. 211/37, Office of this Paper.

JUNIOR; 4 years' experience; height 5 ft. 6 in.; age 22; London and country; country business preferred. State hours and salary, 214/34, Office of this Paper.

LADY Dispenser, Hall qualification, seeks appointment with Doctor or Institution; excellent references; Typewriting and Surgical Dressings. Apply, "E. C.," 5 Station Road, Ilkley.

LADY Dispenser (Hall); experienced, careful, reliable; bookkeeping. 2 Selwyn Road, Upton Manor, E.

LOCUM or Assistant, with view to purchase; disengaged. Stork, Station Avenue, Bridlington.

LOCUM or permanent; immediately; unqualified; abstainer; 38; Prescriber, Optical, Photography; disengaged. 6 St. George's Road, Ramsgate.

LOCUM or Manager; qualified; 47; reliable; excellent references; London and country experience; disengaged October 7; knowledge Photography. T. H. Dewey, Fern Villa, Hulene Avenue, Margate.

LOCUM, Manager; disengaged; experienced, reliable; town, country; 42; highest references. "Sixfoot," 288 Elgin Avenue, W.

LOCUM, town or country, or permanency town; middle-age, active business man; wide experience. Forster, 5 Coleridge Road, Finsbury Park, N.

LOCUM or permanent; qualified; 5 ft. 10 in.; 39; good address and appearance; town and country experience. Longman, 17 York Chambers, Adelphi.

LOCUM or Manager; qualified; reliable; disengaged 19t.. "Chemist" (215/32), Office of this Paper.

LONDON. — German Chemist, speaking English, French, and Italian, wishes to learn English Dispensing; he is willing to pay for tuition. Offers, with terms, to 211/20, Office of this Paper.

LONDON.—Branch Manager or Senior; Dispensing, Photography; energetic Salesman; 36; tall; single; good references. "Pharmacist," 7 Grantbridge Street, N.

M.P.S., D.B.O.A.—A trustworthy Assistant or Manager (30), single, wishes engagement at once in London; persistent worker; good appearance; London; experienced all branches of trade; good Counterman; recommended. "Reliable" (212/27), Office of this Paper.

MAJOR; 25; West-End experience; excellent references; outdoors; disengaged. "Pharmacist," 92 Fentiman Road, S.W.

MANAGER or position of trust; young qualified Chemist; Allenburys' and Harrod's man; married. "H.," 18 Percy Street, Huddersfield.

MANAGER or otherwise; 36; wide experience; competent, reliable; unregistered. "Chemicus," 27 Portsmouth Street, C.-on-M., Manchester.

MANAGER; qualified; excellent London experience. "Ajax," 28 Silver Crescent, Gunnersbury, W.

MANAGER or Senior in good-class business, with view to succession preferred; 35; single. "Pharmacist," Rosemary, Leamington Road, Bournemouth.

MANAGER, Partner, or probable purchase; qualified; 34; tall; managed Drug Co.'s branch 10 years; competent; references, etc. "Yorkshire" (213/40), Office of this Paper.

MINOR Student (23), 7 years' experience, Dispenser, Prescriber, Salesman, etc., well recommended, requires London berth; time off for reading. 210/34, Office of this Paper.

PART-TIME Student; 21; 4 years' experience. "E. R.," 54 St. John's Wood Road, N.W.

QUALIFIED; excellent references; 26; disengaged October 31. Bryant, "Sunset," Goring Road, Llanelly.

QUALIFIED Assistant (22) requires situation in good-class Dispensing business; outdoors; London preferred; good references. "Chemist," 28 Market Place, Brigg, Lincs.

QUALIFIED, Manager or Senior, good references, requires remunerative position; had London experience, also knowledge of Continental Dispensing. "Riew," 51 Leicester Road, E. Finchley, N.

QUALIFIED; Scotchman; 29; West-End Counter and Dispensing experience; speaks French and German. Miller, 23 Oppidans Road, Chalk Farm, N.W.

QUALIFIED, trustworthy Manager; married; town experience; best references. Apply, 20 Delacourt Road, Blackheath, S.E.

QUALIFIED (29), good all-round experience, Photography, requires permanency; outdoors; Central or South London. Apply, "A.," 104 Sternhold Avenue, Streatham Hill, S.W.

QUALIFIED requires responsible position, London; experienced, reliable. 53 Southdean Gardens, Southfields, S.W.

QUALIFIED; mature age; experienced; Manage, Assist; Prescriber; moderate salary; London. "P.," 19 Shrewsbury Road, Bayswater.

QUALIFIED Manager; 35; 5 ft. 10 in.; 18 years' experience; Photography; married. Parkinson, 280 Franklin Road, King's Norton, Birmingham.

QUALIFIED; Manager or Assistant; Locum or permanent; 31; trustworthy; abstainer; 16 years' experience; disengaged. Heaton, Chemist, Accrington.

QUALIFIED Manager; 28; married; 14 years' Retail and Dispensing; up-to-date methods; disengaged. 213/19, Office of this Paper.

QUALIFIED; 32; Manager; competent, trustworthy; abstainer. "Iridin," 6 Dartmouth Park Avenue, Highgate, London.

QUALIFIED; Manager or Senior; outdoors; London or Suburb; experienced Dispenser, Extractor, Photography. Brimson, 69 Hindes Road, Harrow.

QUALIFIED; 25; Manchester district; outdoors. Williams, 25 Auburn Road, Old Trafford, Manchester.

QUALIFIED Manager; good Counterman and Prescriber; skilful Pharmacist; Photography, Optics; excellent references; abstainer; married. Everett, 188 Buer Road, Hurlingham, S.W.

QUALIFIED, first-class Assistant, age 30, tall, abstainer, good address, desires engagement in City or West-End, with short hours; personal interview. Apply, J. H. Winter, 315 Brixton Road, S.W.

QUALIFIED (24) seeks situation as Dispenser; Hospital or Retail. "Gerine" (215/30), Office of this Paper.

22; 6½ years' experience; Dispensing; very steady; time for study; London. W. Wray, 49 Corporation Road, Grimsby.

UNQUALIFIED; Senior; Photographics and X-Rays; capable and trustworthy; good references. Apply, 208/36, Office of this Paper.

UNQUALIFIED, energetic, reliable (28), requires berth near College. Goodman, Winchcombe, Glos.

UNQUALIFIED Assistant; 30; Dispensing, Photographic; good experience; hard worker; permanency; disengaged. "Assistant," c/o Watts & Co., Chemists, Dyke Road, Brighton.

UNQUALIFIED Assistant; good-class Dispensing and Retail experience; 22; tall; good references; North preferred. "Chemicus," 20 Portland Place, Stalybridge, Cheshire.

UNQUALIFIED Assistant; 12 years' all-round City and Country experience; good references. "Steuton," Wood Street, Ashby-de-la-Zouch.

UNQUALIFIED Assistant; thoroughly capable; age 29; single; abstainer; outdoors; 13 years' good-class Retail and Dispensing experience; 5 years last berth; Photography; disengaged November 4. "Aurora," 25 Paget Road, Stamford Hill, N.

UNQUALIFIED Assistant, 10 years' London and provincial experience, desires outdoor berth in good-class Pharmacy. "J. C. K.," 26 Cheltenham Parade, Harrogate.

UNQUALIFIED Assistant; outdoors; abstainer; 34; Locum or permanency. "Retail," 802 Holloway Road, N.

UNQUALIFIED, competent, energetic, working Assistant; middle-aged; abstainer; excellent references; moderate terms. "C. V.," 66 St. Andrews, Uxbridge.

UNQUALIFIED Assistant seeks permanency as Senior; outdoors; over 15 years' experience in good-class business; good Dispenser and Prescriber; excellent Counterman and Salesman; tall, gentlemanly appearance and address; highest references. "Statim" (213/8), Office of this Paper.

UNQUALIFIED; 26; energetic and well experienced and good Prescriber; free in November. "Cosmopolitan" (213/1), Office of this Paper.

UNQUALIFIED Branch Manager; 38; married; West Country preferred; Prescriber, Photography; excellent references; not afraid of work. 212/40, Office of this Paper.

UNQUALIFIED; Assistant or Manager; all-round experience; Hospital Dispensing, Dental, Prescribing, Agricultural. 4 Meadowside, Pangbourne.

UNQUALIFIED Assistant (23), 5 years' good all-round experience, tall, well educated, good appearance, seeks berth in or near London for further experience; disengaged. "B.," 29 Cornwall Road, Bayswater.

UNQUALIFIED Assistant, or to Manage small Branch; disengaged; single; country or town; steady and reliable; moderate salary; first-class references; good Prescriber and Extractor; accustomed to Mixed business. State full particulars, White, Langston, Kineton Road, Olton, Warwickshire.

UNQUALIFIED, versatile Assistant; married; 24; disengaged. Burford, 160 King's Road, Chelsea, S.W.

UNQUALIFIED Assistant; 39; permanent situation; town or country; quick, accurate Dispenser; good Counterman; excellent references; salary 33s. weekly; disengaged. "A.," 98 Geneva Road, Brixton, S.W.

UNQUALIFIED (35), 5 ft. 10 in., good appearance, married, wants situation; permanency; Agricultural, Dispensing, Prescribing, Extractor; good references. "W.," 11 Cowper Avenue, East Ham.

UNQUALIFIED; good experience; Dispenser, Locum; moderate terms; tall. "Gentian," 94 Edward Street, Deptford.

WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

ADVERTISER (33), at present Works Manager for large provincial Sundries House, requires berth in or near London, any capacity; highest references; control staff, male and female; expert in Packed Goods and Sundries; smart Buyer, knowing best Manufacturers at home and abroad. Apply, 207/10, Office of this Paper.

CHEMIST (30), 15 years in own business, Wholesale and Retail, seeks engagement as Traveller or other position; Drugs, Sundries, or Specialities. Apply, 213/34, Office of this Paper.

CHEMIST, Minor qualification (26), at present engaged in a West-End Pharmacy, desires engagement with a large firm of Manufacturing Chemists. 213/39, Office of this Paper.

ENERGETIC young man (23), 6½ years' experience in Manufacture and putting up of Essences, Syrups, Cordials, Jellies, and Grocers' Sundries, desires advancement. 213/10, Office of this Paper.

EXPERIENCED Assistant (24), 10 years' excellent Manufacturing experience in Retail and London Wholesale Laboratory, seeks responsible position in Wholesale house. 210/32, Office of this Paper.

EXPERIENCED Traveller; qualified; London or country; single; well educated, energetic; good address; best credentials. "Bis uuth" (211/19), Office of this Paper.

LAD, smart strong (19); Manufacturing Laboratory; trustworthy worker; excellent references. Randall, 1 Railway Approach, Tooting.

MAN; 36; good General Working Foreman; hard worker, organiser, and economiser; could travel. "Energy" (215/4), Office of this Paper.

REPRESENTATIVE (Chemist), with good connection in North England and Scotland, is open to Represent an up-to-date firm in Drugs and Packed goods, on commission or otherwise. 214/31, Office of this Paper.

REPRESENTATIVE (young) disengaged; long experience, Essences, Essential Oils, Herbs, Barks, Roots, for Mineral Water, Confectionery, and allied trades; highest references. 215/7. Office of this Paper.

TRAVELLER, qualified (34), desiring change, is open shortly to Represent in Scotland and North England any reputable Manufacturing Pharmaceutical Chemists dealing with Medical Men and Chemists; best credentials; salary, expenses, and commission. (213/18), Office of this Paper.

TRAVELLER, working N.W. Counties and calling upon Doctors, Veterinary Surgeons, Chemists, etc., desires additional Agency; terms, £2 weekly towards expenses, and commission; highest references. "Success" (212/260), Office of this Paper.

TRAVELLER, already representing one house, desires to Represent another on part expenses and commission basis; Medical, Dental, or Veterinary Specialities; no side-lines. "Digitalis" 212/26), Office of this Paper.

WHOLESALE Druggists and Manufacturing firm desiring the services of a competent man as Sales Manager or in other responsible capacity should communicate with advertiser, who is experienced in modern business methods and thoroughly conversant with conditions governing the successful marketing of goods at home and abroad. Address, "Qualified" (215/8), Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for **12** words or less; **6d.** for every **10** words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

CONTINENTAL.—Qualified English Assistant (26) requires Season's engagement; high-class Dispensing experience. 211/39, Office of this Paper.

QUALIFIED Chemist (25), tall, abstainer, University undergraduate 3 years' standing (with French), seeks Locum in English Pharmacy, Continent; excellent references; thoroughly reliable. 215/17, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—250 Allenbury "A" 6 per cent. Preference, 24*s.* 1½*d.* x.d.; 240 "B" 6 per cent. Prefereuce, 23*s.* 10½*d.* x.d.; 50 Brunner Mond, 102*s.* 7½*d.*; 500 Dakin Bros. £1 6 per cent. Cumulative Preference, 21*s.* 6*d.*, with full year's dividend due November (dividends on Ordinary shares for last four years averaged nearly 20 per cent.); 100 Idris "A" 6 per cent. Preference, 4*s.* 5½*d.*; 100 Lewis & Burrows Ordinary, 2*s.* 6*d.*; £100 Meggeson Debenture, 81¾ x.d.

WANTED (subject).—Meggeson Ordinary and Preference, Wright Layman Preference; 5 Camwal Debentures, £33 each.

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London and County and Westminster.

CHEMISTS requiring second-hand Fittings should not hesitate to write to us at once; we have the largest stock in the world (at low prices), which must be sold at once. PHILIP JOSEPHS, 93 Old Street, Goswell Road, London, E.C. 'Phone 9057 London Wall.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

CHEMISTS' SHOPFITTINGS (second-hand).—Ranges Mahogany Drawers, Bevelled Edged, Glass Labels, Cut-glass Knobs, Shelving, Lockers; Mahogany Dispensing-screens; Glass-fronted Counters; Piano-fronted Wall-case, Mirror Centre; Bent Front Counter-cases; Desks; complete Shop-rounds, Window Backs, Glass Shelves, etc.; extensive stock; give-away prices; high-class Fittings, bang up to date; Estimates. D. MATTHEWS & SON, 14 & 16 Manchester Street, Liverpool.

CHEMISTS' Shopfittings.—Window Enclosures, Showcases, Silent Salesman, Dispensing Screens, Wall-cases, Perfume-cases, Glass-front Serving Counters, Drug Drawers, Counter Drawers, second-hand, shop soiled, at unbeaten prices; you can't do better; 30 years fitting Pharmacies. Send for free estimate, George Cook, The Working Shopfitter, 30 Buttesland Street, East Road (near Old Street Tube Station).

BARGAINS.—1 12-ft. second-hand Drug Fixture, including Range of 66 Mahogany Drawers, with Glass Labels, £9 10*s.*; 1 7-ft. Bent-front Counter-case, with Display Shelves, £5 10*s.*; 1 7-ft. 6 in. Counter, with 7 Drawers, 40*s.*; 1 12-ft. ditto, £4 10*s.*; 1 Perfume Case and Desk, 40*s.*; 1 4-ft. Nest of 9 Counter Drawers, 20*s.*; 1 6-ft. Recessed Mirror and Marble-slab centre Dispensing-screen, £4 15*s.* R. TOMLINSON & SONS, Headquarters for Chemists' Shopfittings, Bond Street, Constitution Hill, Birmingham.

CHEMISTS' FITTINGS (bargains).—16-ft. Drugfitting, mirror Poison Cupboards, Cornice complete, £14 10*s.*; Mahogany Plate-glass Wall-case, 10 ft., £13 10*s.*; Mahogany Plate-glass 7-ft. Dispensing-screen, bevelled mirror centre, £5; Serving Counter, 12 ft., Glass Doors, Mahogany Top, £7 10*s.*; Nests of strong Counter Drawers, from 27*s.* 6*d.*; Mahogany and bent Plate-glass Counter-cases, 4 ft. 75*s.*, 5 ft. 87*s.* 6*d.*, 6 ft. 97*s.* 6*d.*; all goods as new. Send for sketches to H. Mills, Chemists' up-to-date Shopfitter, Shop Front Builder, Steam Works, 163-5 Old Street, E.C.

M°QUEEN'S System of Accounts for Chemists; works out gross and net profits, balance sheet, and income-tax return with guaranteed certainty; a work well known and considered indispensable by progressive Chemists (Tenth and improved Edition). Full particulars and testimonials, post free, McQueen & Co., Moat Road, E. Leicester.

FREDERICK WILLIAM SAYERS, Deceased.—Pursuant to the Law of Property Amendment Act, 1859, intituled "An Act to further amend the law of property and to relieve trustees,"

NOTICE IS HEREBY GIVEN, that all creditors and other persons having any debts, claims, or demands against the ESTATE of FREDERICK WILLIAM SAYERS, late of 82 King's Road, Chelsea, in the County of London, Chemist (who died on the 13th day of August, 1912, and to whose estate letters of administration, with the will annexed, were granted to Mrs. Mary Thomson, the administratrix, in the Principal Registry of the Probate Division of His Majesty's High Court of Justice, on the 21st day of September, 1912), are hereby required to send particulars in writing of their debts, claims, or demands to me, the undersigned, the solicitor for the said administratrix, on or before the 19th day of November, 1912; and Notice is Hereby Given, that at the expiration of that time the said administratrix will proceed to distribute the assets of the said testator among the parties entitled thereto, having regard only to the debts, claims, and demands of which she shall then have notice; and that she will not be liable for the assets or any part thereof so distributed to any person or persons of whose debt, claim, or demand she shall not then have had notice.

Dated this 9th day of October, 1912.

H. Q. LOUCH, 35 Lincoln's Inn Fields, W.C.,
Solicitor for the said Administratrix.

ERNST L. ARMBRECHT, Deceased.—Pursuant to the Law of Property Amendment Act, 1859, intituled "An Act to further amend the law of property and to relieve trustees."

NOTICE IS HEREBY GIVEN, that all creditors and other persons having any debts, claims, or demands against the ESTATE of ERNST LOUIS ARMBRECHT, late of 71 and 73 Duke Street, Grosvenor Square, in the County of London, Homœopathic Chemist (who died on the 7th day of August, 1912, and whose will was proved by Charlotte Louisa Armbrecht, Ernst Louis Nelson Armbrecht, Laura Sophia Frederica Nelson Armbrecht, Dora Cecilia Nelson Armbrecht, Elsie Christine Nelson Armbrecht, Frances Charlotte Nelson Arrowsmith, and the Public Trustee, the executors therein named, in the Principal Registry of the Probate Division of His Majesty's High Court of Justice, on the 24th day of September, 1912), are hereby required to send particulars, in writing, of their debts, claims, or demands to us, the undersigned, the solicitors for the said executors, on or before the 20th day of November, 1912; and Notice is Hereby Given, that at the expiration of that time the said executors will proceed to distribute the assets of the said testator among the parties entitled thereto, having regard only to the debts, claims, and demands of which they shall then have notice, and that they will not be liable for the assets, or any part thereof, so distributed to any person or persons of whose debt, claim, or demand they shall not then have had notice.

Dated this 16th day of October, 1912.

GRUBBE & TROUGHTON,
3 New Court, Lincoln's Inn, W.C.,
Solicitors for the said Executors.

SHOPS ACT, 1912.

Shop Inspectors are looking sharply at Chemists' shops. Medicines and Medical and Surgical Appliances may be sold during closed hours if the statutory notice is exhibited. Two cards are necessary, and will be sent post free on receipt of eight penny stamps, The Publisher, 42 Cannon Street, London, E.C.

"IS IT LIABLE TO MEDICINE STAMP DUTY"?

Four penny stamps sent to the Publisher, 42 Cannon Street, London, E.C., will pay for a card-guide to the stamping of medicine. It shows the grounds of liability and exemption and is eyeletted so that it can be hung up for quick reference.

OPTICAL DIPLOMAS.

Experienced and successful coaching for the S.M.C. and B.O.A. Examinations by correspondence and personal tuition Success guaranteed in a few months by our method to students willing to work hard. Reasonable terms based partly on results. Apply Secretary,

DIOPTRIC ASSOCIATION, 25 & 26 Hart St., Holborn, W.C.

I WILL TELL YOU A SECRET.

I can't play Golf, Hockey, Billiards, or other things most men can do. But I **can** increase Chemists' Businesses. Yes that is the only thing I can do better than anyone else. Get my free booklet, and read the proof. Don't believe me, believe my clients, they ought to know.

BERNARD SLACK, 9 King Street, WOLVERHAMPTON.

ONE MINUTE PLEASE.

Are you a Pharmacist selling more Patents than Specialities, or one selling many Specialities and few Patents? When you join me, you get the practical advice, ideas and service of a Pharmacist to help you to increase the profitable part of your business. Booklet, explaining my methods with samples of my new advertising scheme (on approval), sent to Pharmacists only on receipt of 1d. stamp. Write to-night.

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

IF YOU HAVE NOT JOINED

The CHEMISTS' FRIENDLY SOCIETY

What are you going to do with your first quarter's Insurance Card! Sign and post it now to your own Trade Society, and application form for admission will be sent by—

THE MANAGER, C.F.S.,
194 St. Vincent Street, Glasgow.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

CAPITAL 5-gr. pill-machine, cuts 24; price 8s. Halford, Chemist, Hockley, Birmingham.

SODA-WATER machine by Loze, good condition, with filler; makes its own gas; boy can fill 3 doz. per hour; price £12 10s. Milling-Johnson, Ltd., Chemists, Chester.

DENTAL.

DENTAL lathe, bench, outside lamp, tools, etc. 12 Newman Road, Erdington, Birmingham.

EXCELLENT pump chair for disposal; cost £35. "Dens" (213/21), Office of this Paper.

AMERICAN pump dental chair, circular base, low seat, sunk oil chamber; fountain spittoon; bargain. Taylor, 122 Drury Lane, W.C.

DRUGS AND CHEMICALS.

OVERSTOCKED.—Santoninum, 4 oz.; what offers? McMullan, Chemists, Larne.

OL. LAVAND., Mitcham, old, 1 lb. unsealed bottle; offers. 210/27, Office of this Paper.

1-oz. original bottle finest virgin otto rose, 50s., cash with order; no exchange. Palmer, Thornbury, Glos.

SHOP FITTINGS.

DISPENSING-SCALE, Maw's No. 1918/R, cost 35s.; good order; delivered free; new last year; what offers? Maxwell, Dalkey.

ADVERTISER wishes to dispose of handsome mahogany wall-case; also mahogany window-enclosure; a bargain. Reynolds, 112 Crescent Road, Plumstead.

MISCELLANEOUS.

THIRTY gallons Pix compo, window-fittings, plate-glass shelves. Rainey, Chemist, Spilsby.

METALLIC boxes, round, 2 in. by ½ in., 4¾ gross, new; 20s.; cost double. 3 Lowther Road, Brighton.

8 6-gallon stoneware barrels, upright shape, with tap hole at bottom; Doulton's made; cost 10s. 6d. each; what offers? 209/22, Office of this Paper.

WANTED.

WANTED, Mr. J. R. Eden at 14 St. Aldate's, Oxford; illness; urgent.

WANTED, good ½-plate enlarger. Cuticliffe, 2 Clarence Buildings, Ventnor, Wight.

QUININE pessary moulds wanted. Send sample of size and lowest price, "M.," 123 Stockwell Park Road.

FORTY best glass-stoppered N/M shop-rounds, unlabelled, cheap. Gamlen, Chemist, York Road, West Hartlepool.

ADVERTISER, who is opening a business, wishes to purchase shop-rounds, carboys, etc. Reynolds, 112 Crescent Road, Plumstead.

OPTICAL hooks; Minor, Major, Chemists' hooks; send prepaid for valuation; cash offers per return. Gower, Bookseller, Waterloo, Liverpool.

BOTTLE-WASHING.—Can anyone suggest a firm experienced in the cleansing of bottles having contained essential oils? 213/16, Office of this Paper.

DENTAL chair, spittoons, instruments, etc., on hire to responsible professional man. Full particulars to "Dental" (211/11), Office of this Paper.

"C. & D." (Supplement only) and "Punch" wanted in exchange for "Pharmaceutical Journal," posted Monday. "M.P.S.," Tippendell, St. Albans.

CHEMISTS' TICKETS!

F. MERTEN & CO. Advise all Chemists (before placing their orders) to write for Samples of their —

MOST SELECT, EFFECTIVE, & CHEAPEST WINDOW TICKETS OBTAINABLE; also a Specialty of theirs is the production of Display Figure-Sketch Cards, portraying various ailments, etc.

Write at once—72 MARLBOROUGH RD., UPPER HOLLOWAY, LONDON, N., to obtain satisfaction.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in British South Africa, as well as to other chemists in business there.

Natal.

Price Protection.—A meeting of Durban chemists was d at the rooms of Mr. G. Stuart Jones on September 19. ere were present Messrs. Dunkerton (Chairman), Ander- , Jones, Gale, Legg, Acton, Charlton, Oliff, Firth, oper, Oldfield (Messrs. Wulfing & Co.), and Goodbrand on. Secretary). *Proposed P.A.T.A.*—The Secretary d a circular which had been received from a committee Cape Town which had been formed with the intention obtaining the views of the various societies, manufac- ers, and wholesale and retail chemists as to the formation a Proprietary Articles Trade Association for South rica. After a discussion, in which Mr. Legg questioned ether the grocers could be bound by the agreement, . Oldfield, of Wulfing's, explained that the proposal s that the four Provinces should be affiliated, with a ad office in Cape Town. The division of the Provinces uld facilitate the fixing of prices, which would probably different in each Province. As the scheme would require ne capital each wholesaler would be called upon to sub- ibe 5*l.* The Association would be worked on the same es as the P.A.T.A. in England. Grocers and outside ms would be brought under the agreement. A sub- nmittee, consisting of Messrs. Dunkerton, Jones, Firth, oper, and Goodbrand, was formed with the object of taining further information on the subject, the com- ttee to report to a subsequent meeting. *Price-list.*— ie Secretary pointed out that the Dispensing Schedule quired revision. This was referred to the Price-list mmittee for consideration. A suggestion by Mr. Ander- n that all prescriptions should be priced with a private rk, so that the same price would be charged wherever e prescription was dispensed in the Province, was also ferred to the committee.

Transvaal.

Continued Drought, with consequent dust-storms, is using great inconvenience.

The Smallpox Epidemic in the Johannesburg district s now been practically stamped out, only to be followed an outbreak of diphtheria.

South African P.A.T.A.—The Transvaal chemists ve appointed the following committee (with power to d to their number) in connection with the proposed A.T.A. scheme: Messrs. R. Q. Leeds (Lennon, Ltd.), Main (Peterson, Ltd.), R. King (Sive Bros. & rnovsky), A. Macdonald (Loewenstein, Adams & Co.), L. Ralling, and J. Christie. It will be seen that both olesalers and retailers are represented. Our Johannes- rg correspondent writes: "No doubt exists that a A.T.A., if formed, would be a great advantage, financi- y and otherwise, to the chemists all over the Union, and t an end to the indiscriminate cutting of prices that is ing on at present, especially in Johannesburg. It is a gantic scheme to tackle in so scattered a country, and ll take a long time to put in working order. Many e the obstacles that will have to be overcome. Rents, aries, and general working expenses are so different, d the 'landed cost' of proprietary articles varies very nsiderably in each Province, that I venture to say, when e time is ripe for fixing the 'minimum retail,' this will ove a great barrier. For instance, we in the ransvaal could not possibly sell at Cape Town prices d make a living profit (though at the moment I dare say ny lines are being sold here below their prices). Cost of ing is much higher, and, being so far inland, carriage a big item here—runs the cost up at once at least 10 per nt., so that we must charge more for some goods. How- er, all difficulties can be overcome, and it is up to the emists to put the willing shoulder to the wheel and see e scheme through."

Pharmaceutical Society of Cape Province.

A Council-meeting of the above Society was held in the Society's room, 65 Hout Street, Cape Town, on September 19, Mr. J. Austin Thomas, J.P., presiding. The President applied for a three-months' leave of absence, urgent affairs requiring his presence in England. This was granted unanimously. Mr. H. R. Peck was appointed to undertake the President's duties during his absence. The usual routine work having been disposed of, it was decided to call a special meeting, at which the question of the Pharmacy Board election should be fully gone into.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is regularly supplied by order to all the members of nine Societies of Chemists in Australia and New Zealand, and to many other Chemists in business there.

The Commonwealth.

Australasian Pharmaceutical Conference.—A proposal has been made to modify the objects and constitution of the Conference. The most important alteration proposed by Victorian pharmacists is that the scope of the Conference shall be limited to strictly professional and scientific subjects. It is remarkable that this suggestion should be made just at the time when the British Pharmaceutical Conference has developed from its previous strictly scientific attitude and added a Practice section.

South Australia.

The Poisons Regulations.—In the Legislative Council on August 20 the Chief Secretary said the Advisory Board had decided to recommend the Government to rescind the regulations so that the matter could be further considered and evidence taken before the regulations were framed. The debate was adjourned for this to be done. (See *C. & D.*, Col. Supp., September 28.)

Victoria.

Poppy-cultivation.—The Melbourne "Argus" states that since the passing of the Opium Prohibition Act 300 lb. of opium has been produced in the State. No law expressly forbids the growing of the poppy for opium production.

Examination Marks.—At the August meeting of the Pharmacy Board new regulations were adopted for the awarding of marks at the various examinations and for the "mercy" clause. The standard at each examination was fixed at not less than 50 per cent. of the maximum marks. The "mercy" clause is to read that "any person who fails to obtain a pass in not more than two subjects at either examination shall be entitled, after a period of three months, to present himself in either or both of the subjects in which he failed at any subsequent examination on payment of the prescribed fee." The re-examination of any written papers is to be allowed on application within seven days of the publication of the result and payment of a fee of 10*s.* 6*d.* for each paper examined.

Pharmaceutical Defence, Ltd.—The prospectus of this company which we have received contemplates a scheme of mutual insurance. On applying for a 1*l.* share, and forwarding the amount, a Victorian pharmacist will be eligible for election as a "member." He will then be entitled on payment of an annual premium of 1*l.* to insurance up to 200*l.* for any damages and costs incurred in any action based on alleged errors in dispensing. This will be covered by an Australian office, which appoints the company an agent and pays it commission. Plate-glass, fire, accident and employers' liability insurance will also be undertaken, and members passing their insurances for such things through Pharmaceutical Defence, Ltd., at the rates they now pay will benefit the funds of the company of which they are members and shareholders. It will be remembered that the company originated from the prosecution of Mr. F. H. Gough for an alleged error in supplying a headache-powder. The fund raised for the purpose of indemnifying Mr. Gough, who had to pay 300*l.* damages and costs, amounted to 301*l.* 1*s.*

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

Opium at Hong-Kong.—Pending the ratification of The Hague Opium Convention resolutions, the Governor of Hong-Kong (says a Reuter telegram of October 4) has announced a proposal to extend the opium farm for one year at the same rental, subject to a considerable diminution in the number of chests for local consumption and export.

Quinine Tablets below Strength.—Some interesting facts in connection with the manufacture of quinine tablets in the Nagpur Central Jail have come to light. It would appear from the annual report that over a million 10-grain quinine-powders were packed and 946,560 were sent out for sale, while the tablets manufactured numbered over 1¾ million and those sent out over 1½ million. But the report (says the "Civil and Military Gazette") reveals a most extraordinary procedure in regard to the manufacture of the quinine tablets. It states: "Owing to the fact that in order to make a tablet a number of ingredients, such as gum acacia, sugar, etc., have to be added to give it consistence, the actual 5-gr. tablet did not contain 5 gr. of quinine. And so in this large transaction there was an actual profit to Government of Rs. 7,218 after deducting the price of ingredients and the working expenses. This, of course, was not contemplated. Experiments are being made to bring the tablet up to the requisite strength."

OUR AMERICAN LETTER.

(Special Correspondence to the "C. & D.")

The "New York Times" of Saturday, October 5, contained a page advertisement about the opening on that day of "Lewis K. Liggett's Drug-store" on Broadway, New York, at the corner of 34th Street. This store occupies over 3,000 sq. ft. on the Herald Square corner of the new Hotel McAlpin, a twenty-three-storey building. "Liggett" figures largely in the advertisement, "Rexall" taking second place.

Curative Claims.—The decision of the United States Supreme Court some time ago was that misbranding of medicines under Section 8 of the Food and Drugs Act, 1906, is restricted to false statements as to the ingredients or drugs of which they are composed, and does not refer to curative claims made on behalf of the preparations. Following this decision, efforts were made to alter the law so that it would be possible to prosecute a person who sells worthless drugs with false statements as to the curative effects. Section 8 has accordingly been amended by the insertion of a sub-section providing that a drug "shall be deemed to be misbranded if its package or label shall bear or contain any statement, design, or device regarding the curative or therapeutic effect of such article or any of the ingredients or substances contained therein, which is false and fraudulent."

"Women in Pharmacy."—In the course of an article under this heading in the "Pharmaceutical Era" the author refers to Herbert Spencer's contention that as the civilisation of a nation increases, so does the position of the women improve, this being due to the fact that where the men are not occupied extensively with the defence of the country, the services of the women are not required so much for outdoor work; and to the women of the United States is given the credit of having reached the highest place. There pharmacy for women has reached an advanced stage, and instances are narrated of girls who by perseverance and enterprise have attained high positions. Passing from the State of Arizona, with its one woman pharmacist, the writer turns to Philadelphia, and tells of one who, although now the proprietor of two city stores, adopted pharmacy as a profession simply because she found that the required attendance at college for the study of pharmacy was but three days a week. Before leaving school she was left motherless and with the care of a father and three young children on her shoulders, besides the necessity of making her own way in the world. She joined the classes, duly matriculated, and eventually was taken on trial by an Italian druggist, with whom she remained until after her graduation. Later on came the opportunity for the purchase of a drug-store, and some years afterwards, her elder brother having meantime graduated at the Philadelphia College of Pharmacy, they decided to open an up-to-date store. This has turned out a complete success, and a training in this lady's store is now looked upon as a very desirable qualification. Other States are next dealt with, that of Indiana boasting a total of 201 women pharmacists, of whom 136 are registered; and a word of praise comes from the Secretary of the Indiana Board of Pharmacy, who says that the average woman "passes a better than average examination." Hawaii has as yet no woman pharmacist; but Texas has fifty-four now fully registered, and there also they are said to "far excel the men in their averages," and most of them are enjoying great success in business.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Saturday, October 19.

Brewers' Exhibition, Royal Agricultural Hall, London, N. Exhibition opens and remains open until October 25.

Tuesday, October 22.

Oldham Pharmaceutical Association, Café Monico, Union Street, at 2.30 P.M. Mr. J. Lees will open a discussion on the "Medical Regulations under the National Insurance Act." All persons entitled to go on the panel for the supply of drugs are invited.

Sunderland Pharmaceutical Association, Grand Hotel, Bridge Street, at 8.45 P.M. Annual meeting.

Wednesday, October 23.

Society of Chemical Industry, Criterion Restaurant, Piccadilly, London, W., at 7.30 P.M. Informal dinner, at which Dr. R. Messel will present the Society's medal to Sir William Crookes, O.M., F.R.S. Dr. Messel will also be presented with a souvenir of his presidency.

Western Pharmacists' Association, Frascati's Restaurant, Oxford Street, London, W., at 9 P.M. Discussion on the National Insurance Act.

Thursday, October 24.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Social evening.

Leeds Chemists' Association.—The annual dinner will be held at the Great Northern Hotel on November 6. Tickets (3*s.* 6*d.* each) from Mr. R. G. Shaw, 93 Dewsbury Road.

Association of Women Pharmacists.—The annual meeting will be held at 17 Bloomsbury Square, London, W.C., on October 28, when Dr. C. W. Saleeby will deliver an address on "The Progress of Eugenics."

Bournemouth Pharmaceutical Association.—The annual dinner will be held in the Gervis Hall Restaurant on October 30. Tickets (5*s.* each) from Mr. W. A. Bingham, Hon. Secretary, 58 Charminster Road.

Manchester and Salford Chemists' Assistants' Association.—A smoking-concert and hot-pot supper will be held at the Clarion Café, 50 Market Street, Manchester, on October 30. Tickets (1*s.* 6*d.* each) from members of committee.

Edinburgh Pharmacy Athletic Club.—To celebrate the twenty-first anniversary of the club's foundation, a supper and musical evening will be held in Fairley's Rooms on October 30 at 8 P.M. Tickets (2*s.* 6*d.* each) may be had from W. H. Chambers, 121 Comiston Road.

Public Pharmacists' and Dispensers' Association.—The inaugural meeting of the session will be held at 17 Bloomsbury Square, London, W.C., on October 30, when Sir Victor Horsley will deliver an address on "Legislation of To-day and its Effect on Medicine and Pharmacy."

Liverpool, Birkenhead, and Wirral Chemists' Associations' smoking-concert in aid of the Benevolent Fund will be held at the Bear's Paw Restaurant, Lord Street, Liverpool, on November 6. Tickets may be had from the Hon. Secretary, W. F. Layeock, 157 Earle Road, Liverpool.

Chemists' Assistants' Association.—The annual *réunion* will be held in the Crown Room, Holborn Restaurant, London, W.C., on November 7. A good programme has been arranged by Mr. A. R. Arrowsmith, 4 Stratford Place, Oxford Street, W., from whom tickets (1*s.* 6*d.* each) may be obtained.

Nottingham Pharmaceutical Association.—The annual dinner will be held at the Victoria Station Hotel on October 24, when Mr. Edmund White, Vice-President of the Pharmaceutical Society, will be present. Tickets (4*s.* 6*d.* each) from the Hon. Secretaries, Mr. Thos. Freeman, 57 Mansfield Road, and Mr. E. E. H. Turton, 2 Chapel Bar.

Printed for the Proprietors by Spottiswoode & Co. Ltd., New-Street Square, and Published by the Proprietors at 42 Cannon Street in the City of London.—*October* 19, 1912.

"P D & Co" Cod Liver Oil Emulsion 33%

WITH HYPOPHOSPHITES

P.A.T.A.

IN THREE SIZES

16 oz. 2/6; 8 oz. 1/4;
Trial bottle 1/-.

In a discussion at the British Medical Association Annual meeting reported in the *British Medical Journal*, Sept. 21, attention was drawn to the value of Cod Liver Oil in Phthisis. An important point was made of the fact that only such oil should be used as eliminated the probability of subsequent oxidation.

The prominence of this report should draw considerable attention to our

33% EMULSION

since this is a point we have made throughout.

We absolutely guarantee our Product.

We will help you to sell it.

A high-grade and remunerative, protected, seasonable product is worth pushing.

Our Emulsion has the approval of the physician. It will please his patient and satisfy your customer, and above all, it will pay you.

Write to us for our selling scheme and special terms.

Parke, Davis & Co., London, W.

ESTAB. 1750.

London Depot { 2 Bath Street, City Road, E.C.

Wholesale Druggists,

WYLEYS LIMITED

AGENTS—Western Australia: Neale, Constable & Co., Perth.
Victoria and Tasmania: Rocke, Tompsitt & Co., Melbourne.

Manufacturing Chemists.

PHARMACEUTICAL PREPARATIONS.
PHARMACEUTICAL SPECIALITIES.
PEARL AND GELATINE-COATED PILLS.
EFFERVESCENT PREPARATIONS.
COMPRESSED TROPELS, BI-TROPELS.
STANDARDISED TINCTURES.

CONCENTRATED TINCTURES.
GLYCERINE TINCTURES.
CONCENTRATED INFUSIONS.
CONCENTRATED DECOCTIONS.
DURAPLASTIC HORSE BALLS.
VETERINARY SPECIALITIES.

Price Lists COVENTRY on Application.

BOURNVILLE COCOA "HIGHEST GRADE BRITISH MADE BY TEST THE BEST"

50 YEARS' REPUTATION.

FENNINGS' CHILDREN'S POWDERS.

ADVERTISED EVERYWHERE. READY SALES.

A supply of Fennings' "EVERY MOTHER'S BOOK" or Counter Bills (both with Agent's Name and Address) or Showcards, sent carriage free on application to

ALFRED FENNINGS, COWES.

GOODALL BACKHOUSE & Co

MANUFACTURING CHEMISTS

WHOLESALE DRUGGISTS, DRUG & SPICE GRINDERS,
PATENT MEDICINE DEALERS, DRUGGISTS' SUNDRIES,
AND TIN CANISTER MAKERS.

GOODALL'S HOUSEHOLD SPECIALITIES.

PRICE LISTS OF DRUGS, PATENT MEDICINES AND PACKED GOODS ON APPLICATION.
NET CASH PRICES QUOTED FOR WHOLESALE.

7 & 15 WHITEHORSE ST. (and Sovereign St., also Victoria Rd.), LEEDS,
And 54 SOUTHWARK STREET, LONDON.

YORKSHIRE RELISH.

Printed for the Proprietors by Spottiswoode & Co Ltd., New-street Square, and Published by the Proprietors at 42 Cannon Street in the City of London.—*October* 19, 1912